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THIS SPRAYERSHY GRACEMENT

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* * * THIS MAGAZINE CONTAINS NEW STORIES ONLY * * *

ol. 1, No. 2

April May, 1939

was party Carrier paids and one town in a speak event, an present message real-limed in the Allice, it means the Dictator powers would whe the Street War. But that was before Sany Feard Shannian, Lead of the Manage, and the domes people of Florier, who cohemned to ensire all Earthman—and Shannian, alternope of Satur, and uplift of Olisteters of all general total.

* * * 3 TOP NOTCH NOVELETTES *

Anonins by L. Sprague de Comp 48
Is the ver of the future off helipperent nations (by t. Sprague de Comp
thins and destruction). On all this also are a man failter representations.

this, And when they crashed as the red diviert of Mars, this Earlianan showed a Seturnian bully that on any planet it's guts, not son, that makes the man!

The Dynamic Cover

tions of Easts Studen's novel. "Price of Time."

I WILL SEND MY FIRST LESSON FIREE

It Shows How I Train You at Home in Your Spare Time for a

GOOD JOB IN RADIO

* different profession of the control of the contro









New Invention







10W) is the time!

Business is Searching for YOU, if portunities flourish for every American every

sesses, branch offices, and get things burning. history of American business, has there been so much room at the top! And new jobs are lines, who that way solerefully and that aren the way to lifetime success. Ordinarily, there would be plenty of men to fill these jobs-men in juntor positions who had been studying in spare time. But most men had been studying in spare they are re-layer been letting their training slide during their training slide during "What's the "-You have heard them say. Perhaps there has been some excuse for sticking to any old lend of a job one could get the past few years-but the door is wide open for the man And don't let anyone tell you that "Oppor-tunity Only Knocks Once"—that's one of the

now, in many lines, there is a search

Faz more to the point is to be ready-to be tig-time employer and LaSalle offers you a short-cut method of qualifying for opportunity LaSolle Extension in 30 years old-reverse over 30,000 enrollments a year-60 American men-surveys show that many LaSulle studenta attain 40% salary increase after grada-stion-10% of all C. P. A.'s in the U. S. A. are LaSalle-alternal is doing for men in your position? Send and ext the focts; see what LaSalle can do for you, personally? There's no exection short it-business in picking up jobs are looking for even the time has come for you to qualify for prosperity.

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His Branchic Bidg, New York (17), 1

Section Sectio

Through the lelescope

Write us your questions on scientific subjects. So far as space persuits, all will be answered in those columns. Perference is given to those which seem of the most general interest. Tell m what you think of our choice.

TROOTEN INTOREA

(The Cold Truth)

Dear Sir

Is it possible to produce a temperature of airedute zero!...J. C. Horsky

For all practical purpose, scientists have reached assists a ror o— an distange leaded are some of the expect. The properties of the proceeding the scientists of the practical statutal odd the arctic by Australeon 1905, it is believed to be the greatest astratal odd the laboratory effects of cryogenie on the biberatory effects of cryogenie on but in worm numeer day, At the Uhal. The control of the control of

At this temperature, hydrogen luqueless—and helium delle gravity! Luque-(ying within two degrees of absolute area, helium almost completely loses its viscosity. The property by with a house of the second of the second luque. Surface films will then spread over any object beyoght into centure with the helium, and will even elithobout of the liqued and assend to considerable of the liqued and assend to considerable. The world revent for low namera-

ture, however, belongs to Holland.
Using the same method as the Americana, but more powerful equipment,
Dutch scientists have plumbed to only
forty-four ten-thou-andits of a degree
above absolute zero. The investions method is based on the principle that magnetizing matter heats it, while denegatizing lowers its temperature. Magnetic salts, pre-cooled with liquid belium, are magnetized with the latthus generated is drawn off with belium vayor. Then the salts are further chilled by demagnetization, and rejecttion of the cycle Riversily junn the sub-

stance down toward the objective of absolute zero, the temperature at which matter is wholly deprived of heat. Though the goal may nover be reached, even its vicinity is studied with profit by obenists. All chemical reactions obey the laws of thermodynamics, governing the relations between heat and energy. In the region

annua severinar use resistoria secial del constitución de la constitución del constitución del constitución del constitución del constitución del mot, there is no use sessiting a chemical settimate or catalyst for an impressible combination. But es much greate ponible banchi to municida them mere subsettima del constitución del concione del constitución del concione del constitución del concione del constitución del contra del constitución del contra del concione del contra del concione del concione del concione del contra del concione del

terias—all of them dry or search gire, are satually able to survive temperatures close to absolute zero! In the extreme close to absolute zero! In the extreme supprend minimation—but recurs norsistence of the control of the control higher water contain, however, estimarity die when subjected to this freezing because their internal liquid crystaliaes and its molerabir structure is altered, and the molerabir structure is altered, and the molerabir structure is altered, and the molerabir structure is altered, that seem very has been formed to avoid that demange—and positionisties appear. If oversomes are from its a spill see.

If organisms are from in a split secend with liquid hydrogen, their molecules are immobilized before they can change pattern. They become like glass, solid but with the molecular arrangement of liquid. In this way mapendels animation has been induced in

pended saturation has been induced in yeast cells, which may be revived after being preserved 10,000 years—without



Bunk - 14947
CHARLES ATLAS
I'll Prove in the first 7daps YOU
can have a Body like Minel

Six of the Physical Subsequence in the World has cover it to maintenance to the summan course of the maintenance of the subsequence of the part of the

NATURAL Motheds Are All I Need to the Area of the Mark Yes My Text I need to the Area of the Mark Yes My Text I need to the Area of the Mark I need to the Area of the Mark I need to the Area of the

or produce you regarded you.

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FREE BOOK



CHARLES AVLAS, Bept. 145-A 115 East 23rd Street, New York, N. Y. I want the areal that your union of Dynama Pennes, will make a New Mys. of two-pen or a harday, hanky holy and his youth developed. Bird, me past for book, "Polyment.

(Figure perits or wells plainly)

cost bile when it is my post who makes the me to be the development within the real fire



by EANDO BINDER

When Serry Corver was abot down in the Sahare, his proper message and discreed, the Disfar series were about to crush the Alies. For that was before Sarry freed erroles. Lood of the Nirogs and the downs people of Pharys, who schomed slave all farthmen-and She-rate, spidles naver of all file

ARNY CARVER gunnerd. As ment like present opinion the not winced. A torrent of smallight stabbed into the eyes, the like spean of them coiled himself work; spitting saud from his month. He raised a hand to the tender tump on his best. How long had he been earl? What had happereed? Memory stabbed into his mind, as the sample best attabled into his mind, as the sample best of the high seyes, the same than the sample best of the high seyes. The sample had a stable of the high seyes the present of the sample had a stable of the high seyes the high sample had be highed workfall. They

Carver raised his head and looked through the heat have that ky over the mighty Sahura. The cloudiess blue of sky was clear. They had left, satisfied that he could not have survived both the business-like strafing of their machine-guns and the crash.

Barry Carver grinned. They were wrong. By a miracle he had come through unscathed. Not a hullet had touched him. He rentembered nothing of the crash. Obvisusly his body had hern thrown clear, onto the cushioning sand.

and brought his lose ship down—sand.

ANSWER: IN THIS TIMELY BOOK JENGTH SUPER SCIENCE NOVEL

He looked as

There his small ship key, a twinted, shattered weck that would never ity again. It had come down like a rock. The engine had brief itself out of sight. Rows of built-builes, near and orderly, sign-gazeged seroes the cromphed wings, Gasoline souked sand rapidly evaporated in the bot sun. By that he knew be had been unconstrost only a few months of the beautiful that the same tha

He came to his knees, and suddenly found bimself dizzy, almost nauscated. He fought off his weakness. No time now to be a weakling. He must carry on somehow, reach an Allied-beld port. deliver his message. It was vital, More vital, perhaps, than any other phase of the Great War that had turned the entire world into an armed camp, in 1942, Scouting over western China, far from where the Japanese-American Front lay, he had spied a secret lananese army marching southward. If they once smashed through to the coast of India, the Dictator Coalition would have driven its first wedge through the Allies' earth-girdling belt of contirmity. Barry Carver had decided this infor-

nearry Carrier and necroes that manmation must up directly to GHQ, in London. Randow was out of the question, because of the harmpe of articles, tempt to kindler the other. So be would by, since be both a king-range sout a kinglocked for 3,000 miles. He had both his chalce—morth to routh routes. North lay the enemy in full force; too risky, But south, who Arthein and the Sixty, then north to London—that was the safest soute.

But of course, as chance would have it, the few of the enemy's devil-dogs patrolling northern Africa had seen him, given chose, shot him down.

VITAL information. Bravely, he set out on foot scross the borning sands, equipped with one canteen of water, a pair of bincedure, an auto-matic and a compass. Young and strong, he refused to be pessimisted about the chances. He would some should be provided away from his wrecked plane, out into the ocean of sand that heaped enflished to all Davistons.

Three days later, Sarry Carver was not so sure of binnell. He sucked the last drep of carrefully rationed water from his camberea and Bing it away. Wearily, he raised the binoculars to his blood-shot eyes. Nothing but sand, sand is all directions. Sitter curses respect from his parched threat. Vital information. Was be to die with it scaring, his brain?

That afternoon, under the pittlesssun, bit mind began to wander. He fought against it, but hopeleasly. He was going to die, out in this sandy bell! All the slipped from his mind, even the Great War that was blacking humanity. He mannel like a wild arimal. His blistered feet, burning skin, aching threat were driving him mod, mail

Then he saw it—the great, spired city ahead of him. He broke into a stumbling run, shouting hoarsely. Saved! The people of the city would give bim water. How sweet it would taste! He stumbel on his the distress rate.

water. How sweet it would tassed:

He stumbled on, but the distance wasgreater than it first seemed. To inspire
his failing strength, be peered at it
through the kinoculus. How bary it
looked; it wavered! That must be his
cyes. But there was water, great fountains of it cascading up in lush patches
of greenery. There were even people on
one of the balconies, staring at him. He
waved, but they stared stanily. Why

didn't they come out to help him?

He again took up his tottering lope, cursing at the loose sand that dragged at his feet.

Suddenly, through the fog of bis mind, a terrible thought pierced. A mirage—it might be that! No, is couldn't be—mustn't be! Yet what was such a great spired city

couldn't be—mustn't be!
Yet what was such a great spired city
doing out in these wastes? Doubts
trooped through his agenized mind. It
shimmered, that city. It wayered and

trooped through his agenized mind. It shimmered, that city. It wavered and floated over the sand. It wave's real, It was a phenomenon of refraction, an image cast across miles of desert. A disholded wision sens to torture him in his last hour of life.

Barry Carver's mind was paradoxically shocked to calm and sanity by the dread realization. His poor barraed feet sattematically propelled him toward the wonderful vision, his whole body straining forward. But his mind, clear and rational, told him be was chaning a chimera.

Another bour and it would be over.

He would sink, drained of strength, to the bot sands. His information would die with birn; the Great War go on without birn. Perhaps some day a wandeing desert tribe would find bis bleached bones. His epitaph would be written in the drifting sands.

in the drifting sands.

Stumbling on, reluting to lie down
and wait for death, Barry, Carver's eyes
appraised the City of the mirage with
almost philosophical distantement. How
are list looked, and yet how surred. Distorted by hent waves, it seemed like no
style were seen one Earth. Its towers and
spires led a filling struct unknown to or
dimary surchitecture. It stretched right
and the result of the company of the company of the
original structure is the company of the
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plainly the bateful dames and ridges of the vast desert.

Just a mirage. No, maybe it wasn't!
Maybe it was real. He would find out
—Leed! Madness stealing over him again. His right band brought up his automatic. Sweazy fangers gripping the stock, aimin for his termole. Better the

of nightmarish insanity.

He flung the gun away, suddenly.

A ADNESS overwhelmed his seeth-

ming mind. The great city's gates were opening, massive steel halves that swung silently apart on cleverly-devised gymbals. He could see now down into the wide avenues, row on row of buildings. The people were heckening to him. urrin him cell. Water! A beat of the bildin urrin him cell. Water! A beat of the country of t

him, urging him on! Water! A beautiful, splashing fountain of it... With voiceless shrieks from his burning throat, the half-dead creature whose name was Barry Curver burshed for-

ward. He fell to his knees and began crawling forward inch by inch toward the mirage-dry that seemed to dance tantalizingly just beyond his reach. Now here was one side of the giest portals. He dutched at the pitted stone.

but it was empty air. He pitched on his face and his groveling fingers found only sand, sand. . . . And in a last moment of calla before a back wave blotted out his mind, Barry Carver welcomed death.

It was strange, the awakening. He was aware of physical lightness,

and a queer some of unreality. But then be speeced his eyes and saw undertantial things. He was in a bed, under soft, silken cover-lett. The room around him was white-walled, curving to a domed ceiling. There were sylvan pictures of bounting beauty, long flowing drapes spectrum colored, carves furnishing heatry, long flowing drapes of the colored carves furnishing heatry, long flowing drapes had been been also be

tal—or ageless.
Soft smilight, not the harab desert give, streamed in a window of crystal clear glass. Curver's eyes were arrested suddenly by what be saw over the foot of the bed. A woman, a girl at second clance, seated at a table writine. Her

stock, signing for his temple. Better the bronze-gold beir glinted in the sunlight, outch death by bullet than the tortures. Carver assayed a call of attention

that came out as a feeble cross. The tried to structle up on his elbow, ignor-

DYNAMIC Science Stories

girl came forward, instantly, smiling. She wore a rich silken blouse, rainbow hued, tocked in at the belt of boggy trousers gathered at the ankles. Oriental costume, Carver reflected, in keeping with the room's furnishings. But she herself wasn't Oriental. Blue

But she herself wasn't Oriental. Blue eyes, rose-white skin, oval cheeks—they were quite Cancasian features. Strongly Irish, in fact. The contrast with her clothing was startling. And her smile was friendly and open, not inscrutable and half-apologetic, as with Oriental

"Caleo?" guessed Carver, concerned first of all with where he was. "How

was I rescued—caravan?"
"Cairo?" The girl looked puzzled.
Carver repeated his question in his

indifferent French, beging this would be understood.

The girl laughed. "No, I speak English" she said. "I was mustled because

you mentioned Cairo."

"Well, where am I then?" pursued

Carver, "Khartoum? Or maybe"—he frowned—"north coast — Tripoli or Tunis, in the enemy's hands. But in

that case, bow would you, a white girl—" He stopped, wonderingly. The girl's face had become grave. "I

see you don't realize you're in Shorraint," she said slowly. "Well, neither did L at first."

"Shorraine?" echoed Carver, "Never heard of it. What part of Africa?" The girl shook her head, "Not Africa, not any other continent. Shorraine is

the—City of the Mirage!"

Carver gasped. He started at her silently for a moment. What reason would she have for lying. Or was she leving? "The wan mean that city I wan

lying? "Do you mean that city I saw
—the mirage—the big gate—" He finished explosively: "I don't believe it!"
"You will one sawn" returned the

"You will see, soon," returned the girl calmly.
"I'll see now," grunted Carver. He

ing the girl's plea to lie quiet.

"You're weak. You must rest."

But Carver didn't have to be told as

sudden wave of weakness turned his
muscles to rubber. He slumped hisk
and a tide of darkness again buried him.

WHEN next be awoke, bunger growed within Barry Carver. The rgirl was again there, and turned at his ills call. "I'm bungry," he told her withbe out peramble. "Incidentally, I'm tall Barry Carver, of the United States airforce."

"Tm Helene Ward, also of the United States," she smiled.
"But you still insist this is the City of the Mirage?" he said half morkingly. "Right out in the middle of the Su-

hara? A dream city that floats, ghostlike!"

She turned from a cupped wall instrument into which she bad whispered a few weeds. "I won't try to exaltin now.

and After you've esten, put on those clothes

he over the chair. I'll meet you outside
or and—show you?

The door opened and Carver gave a
nite start that shook ble whole hed. The

figure that show as water next. The figure that entered, bearing a silver tray leaded with steaming dishes, was squar and bulking shouldered, with thick bowed etumps of legs. His abbreviated

costume of sleeveless shirt and kirtle revealed an ape-like bairness. The features were brutal—thick, flaring nose, nectoring lice receives been

protruding lips, receding brow.

But docile-like, without a sound, he set the tray down on a taboret beside the bed and retreated, with a brief how

of his thick neck toward the girl.

"Good Lord!" breathed Carver, "I

don't know much anthropology, but that
was a Noonderthal Man! What—"

was a Neonderthal Man! What-"
"Til meet you outside," said the girl,
slipping out.

The tempting odors arising from the tray clipped short Carver's amazed conicctures. He sat up, finding himself considerably stronger than the other time, and satisfied his inner cravines. The food was exotic strangely spiced. but tasty. He recognized no single incredient of it. But that it was nourishing he had no doubt. He could feel

new strength nulsing through his yeins. At last, he reflected, he was no wraith, if this was the City of the Mirage. But he hadn't made up his mind about that It would require indubitable proof for helief. Yet, if it were some Oriental earth city, what was a perfectly natural

white girl doing here? And that Neonderthal Man? Barry Carver put the dishes aside burriedly, easer to set the mystery over with. As he swung his feet out of the hed, he noticed they were cleanly healed of any sion of his terrible trek across the desert. Either he had been unconscious a long time, or had had expert medical care. Probably both. He tast-

ed faintly a draw that might have kent The costume fitted his stalwart frame perfectly. An ornate sleeveless coar narrowed trimly at the bine. A broad leather belt held up baggy trousers similar to the girl's. For his feet there were sandals of some soft hide. He stenned hefore a full-length mirror, chuckling whimsically at the bigurre contrast to

typically occidental face. Yet he had the swarthy skin of an Oriental, burned almost mahorany by the three days of fierce Sahara sun. On a small table he found his bipoculars, automatic and compass. He nicked up the sun and tucked it into his

helt somehow feeling better for it. He found a pocket for the compass. corried the binomiars in his hand He strode to the window, but couldn't see much because of a high sill. He turned to the door. It opened magically at his approach and as he went past be detected the faint photoelectric eve at the side. In a short hall stood the girl. Helene. Smiling, she led him to another door that gave access to an open balcome hanging like a crow's nest from the tower. From this vantage, Carver sow the full sweep and extent of the incredible city.

CHEER death greeted him that took his breath away. He was very bish in some tower, nestled among a forest of similar spires. Far below lay lower, flatter buildings and moving figures in winding avenues. Dotting the expanse of metal and stone were numerous areas of steen sward, parks whose meandering lanes were bordered with trees and

Barry Carver knew there had never been such a city on Earth, save in tales of the Arabian Niehts. Was the cirl right? Was this the City of the Mi-

"But it's so solid, so real!" he objected aloud, as though they had argued. "The mirage I saw was shimmering, ghostlike-as unsubstantial as an air-

"Shorraine exists in a different dimension," explained the girl, "In this dimension, Shorraine is real and Earth is ghostly. Look!" She grasped his arm and turned him part way around. his blond, wavy hoir, light grey eyes and "Sculat your eyes and stare straight

> He did Back of him, the sun's brilliant shafts speared through the ciry. And suddenly be saw a quivering unreal scene of endless hills of sand howering below and all around. It was like a superimposed view, the desert faintly occurving the space the city lay in. He opened his eyes wide and the Illusion vanished. Shorroine reared solidly

around him Carver felt shaken at the weird optical effort. An axiom of physics manin. his mind. "Two things cannot occupy

the same space at the same time." he when so recently he had been a half-

DYNAMIC Science Stories

that?"
"I can't," Helene admitted simply.
"They tried to explain to me, but I understood very little of it."

derstood very little of it."
"Who's 'they'?"
"The ones who rule this city." The

girl shook her head at his open mouth, ready to issue further questions. "You'll meet them later. I'll self what I can. The huge front gate in Shornine encloses the 'spot' at which Earth and this world contact. When anything of Earth reaches the Spot, it passes on through to this dimension."

stated fintly. "How do you explain

At his wry smile, she said sharply:
"I'm trying to be as clear as I can. You
approached the Spot, attracted by the
vision of Shormine. We saw you, dimly,

vision of Shormine. We saw you, dimiy, ns you saw us."
"Then there save people waving, beckoning to me!" interposed Carver,

"Yes. We opened the gates for you.
You stumbled at the end, but fell within
the influence of the Spot. You had entered our dimension. We picked you

up, unconscious from your experiences," she explained.

The sirl looked at him symmathet-

ically, "You must have suffered a great deal. Your feet were masses of blisters. You were feverish. Your three was so constricted we feared you would choke to death, lying senseless. But

Shorraine has miraculous medicines. You were quickly treated and brought to this tower for rest."

"How long has it been since I ar-

"Two days. You were kept in a drugged sleep, to hasten your recovery."
"Two days!" echoed Carver. He

looked down at his healed feet again, reflecting that the medicines of Shorraine must indeed be efficacious. And the vigor that flowed through his hody,

whether he would fall within the gates
of Shorraine, or through death's doors.

| ELENE Ward was watching him.
"Do you believe now—about Shorraine?"

"What choice have IP" sighed Carwer. "Though it's all like a fairy tale."

mad racked creature more alive than

dead! It had been a tosseen probably

"What choice have I?" sighted Carwer. "Pough it's all like a fairy tale.
A city in a mirage—another dimension
—a Neanderthal Man—complete cures in two days!" He shook kis head. Then he swang on the girl. "And you you're a mystery. Tell me about your-

She blushed a little, at his stare. "There isn't much to tell. My father led an archeological expedition west from Khartoum, and never returned. That was a year ago." Her face was rave now, saddened. "I set out in

search of him, in an airphune. It eracked up—bad sir currents. The pilot was killed, in the crash. A miracle saved me. I was alone, then, and set out across the desert."

She shuddered. "It was terrible!

Finally I saw the mirage—Shorraine. The gates opened for me, too. I've been here a year."

"A year?" Carver looked at her, "You like it here? You've never tried to leave?"

Before the girl could answer, there was an interruption. A young, experienced man stroke from the door of the tower. He nodded to Helene, and gripped Carver's hand warmly.

"Heard you were up and about. I'm

n Tom Tyson, of the good old U.S.A. air squadron. By the look of the togs you arrived in, I'd say you're an airman you'self?" Carrer's eyes lighted. He introduced

 Carver's eyes lighted. He introduced e himself and went on: "What Front were you on? Jap, European, or South American?"

queetly. "There was only one main Front in my time—Flander's Field."
"You mean—" Carver choked on the words.
"World War," nodded Tyson.
"Strangest thing, how I got down beer. I was doine scrott duty which a feet shin.

I was doing scout duty with a fast ship and plenty of gas. Fog came up at night; compass went wrong. I saw water below once or twice and figured it was the English Channel, Next thing I knew, at dawn, I was over the damaed desert. I had crossed the Mediter-

"Hold on!" Tyson stared at him

"You did a Doughs Corrigan," smiled Carver hriefly.
"Exactly," agreed Tyson. "Anyway, I ran out of gas over the desert, with no idea where I was. Forced landing.

no sica where I was. Forced landing, Then the mirage, the gutes opening, and here I am in Shorraine. Been here since 1913."
"But you're just a young man here terrors."

about twenty!" blurted out Carver, as the astounding thought struck him. Heltme and Tyson glanced at one another. Tyson spoke. "I guess you've heard so many mysteries, one more

won't hurt. People don't age in Shorrsine!" He was about to say more, hat compressed his lips instead.

Carver stared helplessly. Could this

he some mad dream from which be would eventually awake? "I was nineteen when I came to Shorraine," continued Tyson. "I'm still

"I was numeteen when I came to Shorraine," continued Tyson. "I'm still nineteen, physically. But I know what's been going on since then. I know shout your war. What's the latest develop-

The thought of the war suddenly swept all other considerations out of Carver's confused mind. "The latest development," he muttered, "is a move on the enemy's part—a secret Jap army trying to rut through in the In-

between the European and Japanese
Fronts."

DE deew himself up. "I haven't time
to waste. All these mysteries by
etce.
the board, I have to leave Shoralne.
hip Get hack to—civilization, Warn headatt quarters of the Jap move. Do you sup-

pose I can get some help here, to cross the desert?"

Carver saw again a look exchanged between the two and wondered what it was this time. His beart sank in anticipation, even before Helene spoke.

they'll sever our overland connection

19

"You can't leave Shormine," she said softly.
"Why not?" snapped Carver impotiently. "Nobody can stop me. If I came in the Spot, I can go out again."

The girl leoked at him as though
warning him to prepare for the greatest
shock of all.
"Remember when you were stigned
ing into the city gates?" she said. "You
must have wordered why we didn't
come out to belto you. You saw us

watching. We couldn't come out. The Spot only works one way!" Tem Tyson modded scheely. "You can come in from the Earth side easily enough, but going back is impossible. It doesn't work. Or dea I'd have left

bere long ago,"
"Good Lord!" grouned Carver, "You
mean there's no way back? And I have
priceless information for headquart
it should be delivered one. In mother

It should be delivered soon. In another month, that Jap army—"
"There's no way hack!" marmured Tyson.
Carver grasped at straws, "Is there

carver grasped at straws, "Is there any way of communicating with the outside world, Radio, for instance?" Tyson shook his head, "Radio also works just one way—into Shorraine. We know much of what goes on in the

on the enemy's part—a secret Jap
works just one way—into Shorrelinarmy trying to cut through so the Indian Ocean. And I think I'm the only
one knows about it. If they succeed,
con go the other way, to Earth."

Curver bit his lip. What a mad, impossible situation? Tracoed in a mysterious "dimension" from which there was no return. A dismoved feeling clutched his heart, and not only at the thought of his untransmitted information. He must continue to live here in Shorraine, in a strange, almost alien environment. In a city of witchcraft, to radge by what he had beard and seen so

Barry Corner whirled suddenly "Listen, there must be a way back to Earth," he protested, "Have you ever

"Well, no," admitted Tyson, "But they've told us-"They've told you!" Carver mocked. "Why not try it?" He had never taken

anybody's word for anything, when the issue at stake was vital. "All right," agreed Toyon, "We'll

He led the way off the beloom into the short halfway, at the end of which at a sickening pace. They traversed another hallway, passing other people.

Corner stored at them curiously. Were all of them meaning, as Tyson was? How long could they be kept so? But he would find out such things later. At present, his only thought was departure from Shorraine

They stepped out into the sunlight. on a broad flat roof. Typen spoke low words with an attendant and then jumped aboard a flat-droked craft built like a half erg-shell. Carver followed and before Helene aboard

Tyson stood before a nedestal whose ton surface held dials and levers. As he manipulated them, a soft hum arose from below deck and the craft glided into the air smoothly. Carver hung on the rail around the deck, thunderstruck by the fact that there was no propellor

son's half-amused stance.

"Little different from the kind of things we piloted, eh?" grinned Tyson, "Works on an anti-gravity principle. Apparatus below produces a field of force that pentralizes resulty. Power comes from a central broadcast station." CARVER swallowed his amazement

with difficulty. It was becoming apparent to him that Shorraine was a city of more than common science. Neutralizing gravity was no small feat and so far ahead of Earth science that they laughed at it as an outimist's dream. Broadcasting nower through

the ether, though long sought, still evaded engineering efforts on Earth. Both of these had been achieved here and combined in a craft that scored Sailing high above the spires, Carver panse. A circular stone wall, a hundred feet binds completely successful it

Reyard was wild-looking land, apparently uncultivated. "Where is food grown?" queried Carver, mystified. "It isn't grown," informed Heleno.

"It's wode-here in the city, by scientific processes." She smiled, "But don't ask me how. The well around Shorraine is to keen out-beasts." Tyson slanted the ship down toward

the nonderous sistes and landed it on the wall next to a small housing. The at them outzzically "Open the gates," commanded Ty-

"But why?" asked the gate-keeper, turning to peer with squinted eyes beyoud the city. "There is no one approaching from the Earth-dimension." "No. hut we wish to try going

through the Spot, back toward Earth, whitring. He flushed as he causin Tvjust for our own satisfaction," spoke up Carver, "There's no harm trying, is it now. He shrugged and turned to go back. 505.1%

PRISON OF TIME

outside the rate. I saw one of the big besets maming around before " Tyson led the way down winding stairs to the base of the well. Corver was in a fewer of impartience to attempt the return, despite the repeated pessi-

The gate-keeper grinned at him in

recognition, "You're the man who ar-

rived recently? There is no return to Earth. Others have tried it-countless

rehore D

Carver stubbornly.

mism against its success. Finally the massive balves of the metal gate swung outward, without a whisper of sound, The three waiting stepped forward, out toward the dark wild wastes. Souinting his eyes, with the sun in back of him, Barry Carver could see the "mirage" of Earth before him, the year

ocean of the Sahara. It hame over the other scene like a dancing image. Was there no return to it? They trudged forward. Out of curiosity. Curver took out his compass and statord at it. The needle, pointing away

from the city as north, suddenly spun wildly as he walked along. A few feet further on it was pointing into the city, in a queer reversal that was like an ill

Altogether, they walked forward a hundred vards, but the Earth-mirase did not become real. "You see?" said Tom Tyon, but with disappointment himself

"I had been booine-a little," murmured Helene. Curver looked back haffled. He could

see the outline of the Spot, like a round bluish tunnel in the air, filling the space between the gate posts. They had walked right through it. It offered no return to Earth. He was convinced of

IT was a good from Helene. Her finpers dur into his arm. He looked in "I want to try for myself," insisted the direction she indicated and engred himself. Out of the dark land was The gate-keeper scowled, "All right," charging a monuter of scales and spinsy he said grumblingly, after a moment. *Go down helow. But do not go too far

rearing twenty feet from the ground. Rooted in surprise, Carver recognized it. A Tyrannosturus, from the Reptilian Age of the dim past! It thundered down on them, a jungernaut of

hone and muscle. "Run!" shouted Tyson. They fled for the gateway, but Carver felt futile despair. They would never make it before the monstress killer cought up with them. He serked out his automatic and emptied it at the creature, though he realized it would have as little effect

as tossing pehhles. Fifty vards to go! Carver pushed the girl hefore him and glanced over his shoulder. Giant laws, edged with rows of harrible teeth, were almost within striking distance, Death at his very

And then-from the top of the wall stabled a crimson beam, biodoc through the air. It caught the heast squarely and burned smokingly through

armored scales. Screening shrilly, it spun about and raced back the way it had come, with a thunder of its ponderous feet. Safe within the gates, trembling and

ponting, the three watched the great portals swing together.

"A dinosaur!" growled Carver "What else have you got in this crazy world?" He was more angry than as-

tonished, for his sense of surprise had hecome dailed with repeated reve-When they had climbed to the too of the wall, the gatekeeper was shoving a wheeled weapon back to its niche in the

guardicuse. Carver could see an intricate group of tubes, coils and wiring behind a mesh-screen, connecting to a sinty convex mirror. It was powered, probably, from the either broadcast lines and abot out raw heat energy as a beam. Again an example of advanced science.

science.
"Thanks, Provides," said Tyson warmly. "We owe our lives to your sharp eyes and quick action."

tharp eyes and quick action."

The gate-keeper grunted. "These eyes that are trained to watch for the demon-people's slinking shapes cannot fail to see a mountain of firsh before the

saft to see a sountain of firsh before the nose. And in the old days"—his eyes flashed slightly—"one had to learn quickness in the band-to-hand lattiles with the Persians. Ah, in those times—" The huzzine of a wall instrument in-

The huzzi tervened.

Carver turned to see a square panel glow with privantic colors that suddenity flew together to form a face. Television—and far clearer than the images cast by the latest 1942 models on card-li A bearded, sharp-nosed visage poered

out of the visi-screen.

"Proxides," he harked, "for whom or
what reason did you open the gates?"

"For the new man, sire, who did not

believe there was no return to Earth."
"I see," The eyes shifted to meet those of Carver and he felt as though he were booking into pools of endires, depths. "I will explain to him somedire, when I am not so busy." The im-

age inded.
"Who's he?" asked Carver.
"Chief scientist of Shornaine," said
Tyson. "If you want a scientific ex-

plomation for everything, Val Marmax is the mon to give it."
"Then let's see bim right away!" demanded Carver.

"Can't, while be's busy. But I'll arrange for you to see him as soon as possible."

de "A ND right now," spoke up Helene
Ward, "you're going bock to
your room, and bed. You're still a cond,
valescent. Too much excitement at one
time."

"I feel fine," Carver protested.
"Dector's orders," said the girl firmby, "You're not as well as you think."

yet."
"You're taking pretty good care of me," smiled Carver.

The girl's fore tinted and she lowered her eyes without answering. By

of the time they bad flown back to his toom, Carver realized she was right. A strange weakness had stolen over him, m an after-effect of the drugs, he surmised. In bed, he full instantly astroto tired to conjecture over the associngriddle of Sherrains.

For the nest three days, while his full strength rapidly returned, Barry Carver lived a strange dream. Helen and Tyson,who spent most of his waking hours with him, had calvicusly entered a canspiracy to explain little or nothing. Tyson sesured him that soon he would be added this way to the control of the control of the latest the control of the control of the control of the himself of the control of the control of the control of the latest the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the control of the second of the control o

to make it clear, Val Marmon, the seientist.

In fact, in the many bours they spent
on the balcony conversing, Helene and Tyson asked the most questions. They
the were pitifully eager, almost, to bear of
events in their former life. They drank

in his words, the picture of rapt attention.

"We hear much of what goes on in

the world, by radio," informed Tyson.

"But it's dry, second-hand. And we can't sak the announcer questions. Since the war's been on, we've heard less, because, i suppose, of stiff censor-

ship. We hardly know what is going on right now." Carver's eyes went bleak. "B's the greatest conflict in human

history," he murmured. "With science

ist loose as a rawening brute. It all begin with the assassination of Bitter, over a year ago. It was a mistake. He became a moretyr, in the eyes of his world-wide followers. Two months later they rose in attack, inflamed by the other leaders. Every notice became involved, on one side or the other. If the e a m. y wine — dictatoribly all over

wived on me side or the other. If the enemy wins—dictatorship all over Earth!"

He jumped up and began paring, hands clenched. "I keep thinking of that Ion arms. It must be strenged."

hands clenched. "I keep thinking of that Jap army. It must be stopped! Why did I have to fall, or crawl, into this damned trap?" "You wouldn't be alive if you

"Well, you're right," admitted Carver. His shoulders saged briplessly. "Til have to make the hest of it."

He saw an exchange of looks between the other two, as though they too at one time had come to such a conclusion. Tyson took them flying at times, over the city. He taught Carver the tech-

the city. He aught Carver the technique of handling the controls, and it was with some pleasure that Carver maneuvered the ship at hreathtaking spurts and spins. It was far superior in manipulation to clumsy propellored ships. He thought vageely of such craft in the war on Earth, and what a tremendous advantage they would be in

any aerial hattles.

The second day, high over the city,
Carver noticed a hreak in the horizone,
heyond, which elsewhere was an unnroken expanse of dark wilderness.
Faintly, he seemed to see the spires and
wreste cartilless of monther city.

"Is it a city?" he asked.

Tyson nodded, his lips tightening a little.

"Well?"
"It's a city nf—other people,"
vouched Tyson reluctantly.

his only been here a few days, Barry," the er said softly, "You can't learn of everythe inbian better than we can." Carver let it rest at that, though his wer impatience and wonder grew hourly. His two guides took him through his

"You two are keeping a lot from

Helene touched his arm. "You've

His two guides took him through the , various industries of Storraine. Robot f machinery, almost unattended, made the necessities of life, including food. All new material came from simple rock molecules, by processes of transmutation. Power to run all machines, aswith the sincraft, came wirelessly from

with the aircraft, came wirelessly from care a central power-station. This gigantic alsy, plant was crammed to the rool with early bushy humming cyclotrons. Carver was understood it as the generation one of atomic energy. And here was all this science in fullwer bloom, copped up in some isolated "Gill were though the company of the control of the bloom, copped up in some isolated "Gill the company of the control of the bloom, copped up in some isolated "Gill the company of the control of the bloom, copped up in some isolated "Gill the control of control of

ch mension!" It was the science of it Earth's future. But how wonderful to we have it now, if only Earth could have it, ing The people of the city interested ite Barry Carvet the most, however, red Though dressed uniformly in the colecient ful contumes at their style, they were of a all most including a perinkling of Chi-

nese and Negroes. The predominant white, in turn, was of all different types, from almost black Asittic Indians to pink-white Noedles. The main bulk, however, seemed to be an olive-skinned, sharp-mosed people.

Ethnologically, the citizens of Shorraine were a mixed group. And Curver

sensed too that they were divergent in a subtler way that he couldn't define. Snatches of conversation that he overheard mystified him. There were references to the past that puzzled him. But most amazing of all, when he stopped to think of it, was the widesured use of dozum at different limsured use of dozum at different lim-

CARVER stared at their averted aprend use of dozens air different lunrungers. And particularly when he ro-

ticed a swarthy Indian talking German. a Chinese using French, a blonde Nordic rolling off the difficulties of Greek! It was always with a queer shock that

Carver came upon the silent, unobtrusive Neanderthal Men. They served as well-treated menials, apparently, Their little, dull eyes reflected the muddled mind of a creature half-way between man and ane. Farth anthropolo-

gists would mortgage their souls for one of them On the third morning of his awakening. Helene informed him in a rather

supplied voice that he was to be reprived by the "Owner "

"Your ruler?" asked Carver,

"No. She was a Opeen, in her former life, and out of courtesy the title ternains. She makes it a practice to

welcome all newcomers to Shorraine." Helene turned away with a strange hunch of her shoulders. She turned back suddenly. "If you wished you

could nose it by." "No. I'll see the Queen," said Car-

wer, interested. He quoted: "A royal invitation is a command " Tyson joined them and together they sound to a tower of elaborate desire.

frescord and studded with Nocks of sparkling stone. At the landing terrace, a bowing bank-nosed attendant usbered them into a room hung with cor-

grous tapestries. Statuettes eleamed in wall niches. Perfume lingered in the air. On a couch of silks reclined a woman in a clinging robe of white.

"Her Majesty, Queen Elshat" anpossend the attendant solemnly, withdrawing.

ARVER stared almost rudely. He had never seen a woman quite like ber before. Raven-black heir ran smoothly over the ears to outline an olive-tinted face of dark, heavy-lidded

eyes, thin aristocratic nose and line crimsoned artificially. One hand, with

gold-tiated nails, toyed with the ears of a woolly dog curled beside her. The langurous lines of her figure were a study of artistic perfection. She was staring at bim, a faint smile

on her line. "You are Barry Carver, most recent

pilgrim to Shorraine," Her voice was low, busky, melodious. "You will tell me about the outside world that I have not seen for-a white?

"Anything you want to know, Oueen Elsha," assured Carver, flushing a little at ber direct gaze. He felt himself be-

ing appraised, weighed, almost snalyzed, and seemed to see a cleam of onproval in those slumbrons eyes. She stanced at the others, "May I

not be alone with my suest?" Career saw Heleme dant a willed glance at the woman, and then turn away with that same little hunch of her shoulders. Tyson managed to whisper a word in Cursor's our before he left

with a canical arin: "Damamita!" Alone with the countries who resemed

Carver felt at a loss. He could feel his "Sit down beside me. Barry Carver."

she invited. Her English was floont. natural. "Tell me about woorself." He did, briefly. Then he asked: "What mere wan curren of before you came to Shorraine?" He reflected it

must be some comic-opera principality, perhaps in Asia Minor. Her eves fighted, "Of a great land, But that is no more." A fiercer expres-

sion shone from her dark eyes, then, "I should still be a rightful queen. But they have taken my power away, in Shorraine," She perred up at him. "Will you belo me remain what I have lost. Barry Carver? You are a leader. I know that at first clance. You could

do much-for me." Carver stammered a negative, star-

tled at the sudden appeal.

PRISON OF TIME 6No20 He says he will explain many things," "Good," nodded Carver, "So far Her arms were suddenly around his neck, drawing his lips to hers. The I've seen things that need plenty of tall exotic perfume of her hair hypnotized

his senses. But a word flashed through his mind: "Dynamite!" "I have to eo." he said famly, pull-

ine himself away. He left without a backward planes, and soared away in his thin.

Helene was waiting, at his tower. "Well?" she said, with a trace of cold-

"We'll, what?" he countered. "You were there a half hour" said

the girl pointedly. "When the Queen welcomed me, it only took five minutes." She turned with that queer hanch of her shoulder.

Carver laughed, and drew her to him, "I love you. Helene," he said simply. "From the first moment,"

She resisted him, "You've only known me three days. How can you know-"

"Three days, three minutes, three years-what's the difference? Hel-

ene-" Carver was determined, sure of himself. He hadn't been sure of it before The episode with Open Elsha had served to crystallise his own attitude to the supper attractive old who had been

nurse and companion for three days. QHE held herself stiffly as he slipped his arms around her, but suddenly

relaxed in surrender, sought his line cozerly. "Oh, Barry, take me away from this

place-back to Earth!" she half sobbed. after a moment. "I'll certainly try," he promised "Tornerross." she whispered "To-

morrow Val Marmax will see you. You'll hear the full story." She shuddered. "Then you'll know!"

In the morning, Ty-on was on hand, "Val Marmax is waiting for us, Barry.

explaining." He set his line grimly, "If I'm to be stuck in Shorraine, I want to know the why of everything. Coming alone. Helene?" She slipped her hand in his, "I think

I want to hear what Val Marmax has to say too. Due been been a year Forthtime and it's all a mystery to me? "Why do you say 'Earth-time'?"

25

asked Carver, having heard the expression several times, "Is there a different time-senten in Shorming)*

"Let Val Marmax explain," said Tv-500, shortly. Their flat-decked ship arose, smooth-

ly, and darted in the direction of the city's gates. A short distance before them lay a long, low building in the

shadows of sky-niercine towers. Landine on the roof, the way led down winding stairs. Finally, before a door of hurnished metal. Tyson pressed a but-

ton Soft lights flashed in their eves-Curvey guessed it to be a vision scanner -and then the door owned

Not unfamiliar with laboratories Carver recognized the room beyond immediately as such. But little of the naranherealia strewn about on benches and shelves was that of Earth-science. The aspect of the place was foreign,

strange and somehow, age-old. Carver's heart heat faster, for some indefinable reason.

Val Marmax was seated at a desk before an instrument whose rotating metal scroll made some kind of record-

But the scientist was neither speaking nor writing. He was first staring at a small humming clobe over the machine In a flash of insight, Curver knew he was recording his thoughts directly on

The three stood silently, waiting, hand flipped a switch at the side and the

the screll Finally the scientist's thin sensitive

ent."

machine's hum ceased. He looked un-Curver met his eyes. Far more than the vision screen had showed, that other time, they were orbs of dynamic intensity. They seemed filled with the wisdom of ages, shipping forth like a steady a deep weariness. For the rest, he was an average man, about forty, somewhat portly, with a lofty brow, pointed beard

and full lips At a querulous glance from the scientist. Tyson gave Carver's name "The things of Shorraine mystify you. Barry Carver?" spoke the scien-

tist in a doep, grave voice, "I will answer your ouestions. I am Val Marmax, chief scientist of Shormine." "From where are you?" ourried Car-

ver first of all unable to place the man's pendise accent. "From Atlantis" "Atlantis?" Carver looked blank

Then be easied "Atlantic" amin sharply. It took him a few seconds to regain his lost voice. "But you can't mean the mythical island of prchistory -" He stopped, looking at his two companions, but they showed no surprise.

Val Marmax nodded with a faint smile, "That same ill-fated land of twelve thousand years ago, Earth-

"ARVER tried to rationalize. He Could accept offhand the one-time history it had always been a fable. But must be accept Val Marmax's statement at face-value? An impulsive laugh that he couldn't control shook

"You're not twelve thousand years old," he objected. "You mean you're n descendent of that race."

"No. I am an original Atlantide," asserted the scientist. "Proxides, at the gate, is a Greek from the time of Alexander, 110 B.C. There are people in

Shormine from all times and periods, from the days of Atlantis to the pres-"Remember, Barry," came Tyson's voice, "I told you people do not age in

Tyson, of course, was an example himself, Carver reflected, though be hadn't followed through the reasoning before. He had simply taken it for eranted that some miraculous scientific

process. like a Fountain of Youth, kept him young and would do so for a limited time. But this survival of Val Marmax, through centuales, was a different matter. It was immortality! Carver forced himself to be calm, "Is there no such thing as death here?" he

asked quietly. "Only by violence, and occasionally by discuse. Never by what is known on Earth as old-age." The scientist went on, "Our science has conquered

most disease, which is really a death by violence, through the attack of germs Actual violent death, however, we cannot control. If that Tyraneceaurus. outside the gates had caught you, one snap of his laws would have ended

your life as certainly as on Earth." "But old-use!" remonstrated Carver. "How do you escape that?" "We are in a different time-world

than that of Earth," responded the Atlantide. "It is hard to explain, in terms of your orthodox modern science. In a sense, time does not noss here in Shormine's world. Or rather call it biological time. Old-age is a wearing down of the hody-machine, measured by hiclogical time. And biological time stands still here. There is no simpler explanation,"

Carver's eyes rested on Helene "What of your children? Good Lord. if death is so rave, how have you kent the population from choking itself by

sheer pressure of numbers?" Helene looked back at him queerly.

safly, Curver noticed and he suspected But they are too involved for ordinary

the answer. The sturning thought occurred to him that he hadn't seen a single child, in three days!

"There are no children in Shorraine!"
Val Marmax was tooking at the floor now, "There can be none. Birth and

growth are processes dependent on hislogical time, again. We have no senile old dotards, ready for the grave. But neither have we children to grow up a cur sides. That has been the price of

neither have we children to grow up at our sides. That has been the price of immortality in Shornalne!" Carver hroke a strained, depressed silence. He sensed that Val Marrow

and perhaps all the others of Shorraine, would willingly exchange this immortality for normal life.

"The pathway back to Earth is

"The pathway back to Earth is closed, as I know," he said. "But have you tried, with your science, to open the way?"

Infinite weariness suddenly came

over the Atlantide's face.

"I have tried, and many others, for these thousands of years. It seemed impossible. The Spot can be simply resolution, from Earth to Shortaine. But the return is harred as though Earth were in the remotest galaxy. And therein lies the whole survey of Shor-

HE settled himself back. His eyes faced as though he were plumbing the depths of time with his vision.

"The world of Short—which is our tangou means 'mfrage/—less in different universe than that of Earth. There are different stars and different discoustions. The two do not conflict, though they lie wrapped in one another. They are in different time-sectors. And as are in different time-sectors. And as

your Einstein has shown, partly, two things can exist in the same space, at reparate fineses."

He waved a hand of dismissal.
"Having studied the problem for so long, I could show you the formulaCurver nodeled. "Skip it," he said. He realized that the riddle of Shorraine was something Earth science a

or rigid dogmatism hadn't made allowance for. The Atlantide resumed.

"Shorr, however, does have contact with Earth, at the Spot. To give an an-

alogy, it is something like a two-dimensional flat world touching a three-dimensional glubs. They would contact at one point. Thus, since time began, there has been this path from Earth to

there has been this path from Earth to this world—one-way.

"As a result, creatures of Earth hlundered through the Spot, into this dimension. All other conditions are

dimension. All other conditions, save time, heing strangely alike, they lived. In the dim past, millions of years ago, the great reptiles came through, during their era of predominance. The Sa-

hard, in these terrote times, was not a desert, but a rich, prediffic hetched of life, and by the laws of mustbers about, though the Spot is so small, many dimsaurs entered. In my lifer mesents, I have soared over the dark lands and catalogued Triceratops, Berotissures, Stegosaurus, Trachedon, etc. They, too, were unable to die of age, but their

too, were unable to the of age, but their numbers have been depleted by their nutual depredations. The Tyrannosaurus you saw is the only one I've known of in fifty years. He may well be the last of his species in Shorr." Carver heaved a sligh. The pieces of the nucel were falline into plane. And

in a less cracy pattern than had at first seemed possible.

"Eventually," continued Val Marmax, "man came on the scene. Perhers, through a period of lifty thousand

max, "man came on the scene. Perhaps, through a period of fifty thousand years, all the sub-species of near-man wandered in. Before the dawn of true man, the Neanderbalters particularly entered the Spot. Terrified, hevildered by the new world, they did not venture

far from the Soot, and established a of life and thought-grew deep. cave community exactly on the site of "Though we prided ourselves as belater Shorraine. They managed to eke ing the masters of nature and all its

cert a living by hunting. "We found them here when we came ----we of Atlantis."

The adentist's voice became tensevibrant. "Fifteen thousand years ago Atlantis and Mn achieved a cultured scientific civilization that lasted for three thousand years. Then came catastrophe, as your fahles relate. The seas rose, the

lands solit, and the fires of the underneath erupted. Atlantis and Mu were Something of the terror and agony of that long ago disaster shone from the speaker's eyes. Carver felt sympathy.

28

"Some of the scientists of Atlantis knew of the Soot, knew that it led to a livable world, as they could faintly see in 'mirages.' While there was yet time we eathered as many of our people as we could led them into Shorr Better a chance for survival in an unknown

world then certain death on torn twisted Earth Some few of Mrs. from half were around the world were also they would have noticed, by comparisaved. Oueen Elsha - was oueen of that great land in the Pacific."

ARVER started a little, thinking of

his visit with Queen Elsha and her strange conversation Vol Marmax sighed "Thus we began life anew. With our

science, we founded the city of Shory raine... Mirare City....on the site of the Numberthal case home. The few serviving Neanderthalers we trained as our servants. Life was not unpleasant in Shorr, but we soon longed to return,

Particularly when we knew as the immortality that denied us children. Then we found-that we could not return!" The furrows in the scientist's brow -sharpened by twelve thousand years mysteries, we could not solve the problem of the Spot. Life went on. In the nast twelve thousand years, others have wandered into the Spot, from later times than ours. When the Egyptian

empire flowered thousands of them curse to Shorroine. Leter men from oll lands-Sumerions Persions Greeks Romans, Crusaders, Arabs, and the European adventurers. Not in great numbers, of course. Only by chance. sometimes only one a year. Since the

days of Egypt, when the Sahara became a death-trap, only doomed men whose half-maddened minds saw the minage of Shorraine as possible rescue, have stumbled in, as with yourself." "Are all the mirages of the Sahara."

asked Carper cariously, "caused by Val Marmax nodded. "All mirages,

so-called one reflections of our city from different angles. Or views of the rest of Shorr. Earth eyes have dressed them with many funciful details, but

son that it was one and the same gen-"And that," mused Carver, "explains

one of the oldest of historical phenom-He looked at the Atlantide's studied

face. It was hard to believe that this man had lived three hundred lifetimes. That the city was filled with other peonie whose lives had more post the Biblical three-score and ten. Carver was suddenly appelled, "How

have you filled the time?" he sthispered. "All those centuries and centuries..." "We have managed to occupy our-

selves," smiled Val Marmax. His smile was mirthless. "The repairs and runping of our machinery, beautifying our city, and the pursuit of bobbies. Earth history has particularly absorbed us.

collectively. Each new visitant to Shorraine, when he had become settle in the new life, was set to work writing the down all he here of list times. We have written records that would be priceived written records that would be priceived history lost to your times. Another peopular avocation has been to learn different languages. Almost every person in Shorraine can appeal threatly in the colsion of languages. It takes time—but labus knows, we have enough of their.

snoots, we more enough of that.
Corres and not, though be had taken
it for granted hefore, why everyone is
Shortilian searched to know English threetimes are some statement of the control of the contimes ratio, as they not studied all other
motion baregues. They had protted all other
motion baregues. They had protted all other
motion baregues. They had protted his
spokes is longer than Carroe himself the
here hore, Prosides, who
the statement of the motion English haguage had been set down! Everything
in Shortnian was stoop-curry. It was
the stoops and the stoops of the contimes of the control of the contimes of the con
times of the con

the con
times of the co

"I suppose it's been interesting in a way," remarked Carver. "Living on and on learning many more things than sormal humans ever have a chance to, But which would you rather have—this life or life on Earth?"

THE visage of Val Marmax suddenly unmasked itself as an incredibly old, scalle, wearied face behind its ageless lines.

leasly, endlessly---

"Barth!" he said instantly, hit eyes glowing, "We would webcome release from this would webcome release from this deathless primes. I have lived treve bussand yours in Shoreniza two-best and the said of the said life. Life is a meaningless Pergeptery here. Immortality is uskes. Two-beyars hatch on Earth words he fuller, richer, grander—" He stepped, helpsless to express himself. "You will do out, Barry Carver, when you have watched the down wars named he east.

"If don't intend to find out," said Carye out of the Spet,"

Val Marmax's sigh came from his
soul,

"I have chanted those same words for

ss soil,

"I have chanted those same words for

twelve thousand years," he said. He
became suddenly fierce, scornful. "For
in twelve thousand years I've tried—and
my sefurce has failed. And you say

childship it can be achieved, as though it were a tent-flap one could toos aside."

Carrer took the rehabet in silence. Beside him, Tom Tyson scirred. "If there only never a way!" he unmraused. "I've only hen here twenty-four years. But I'd takes also you Earth for another twenty-four, Even an hour, in a dog last against enemy planes, knowing I couldn't escape them!"

The way! Carrer had almost format.

ten about it. He jumped up and began pacing. "It's all so frenie!" be compacing. "It's all so frenie!" be complained in a matter. "You people would gliddly so hack to Earth, and Earth could use your great science. Your stomic-energy process, wireless power transmission, chemical food, robst machinery. And your marvellous antigravity ships and beam-weapon, in the war! If we had your hely, we would

Val Marmax nodded. "I have thought of that myself. I have followed your war, by radio reports. What puny suns and methods you have! I

osuld rout an army with ten of my ships!"

Carver whirled.
"Suppose the Spot noze open!" be

demanded. "And you could go out.
You would have to choose a side. Which
side?" He almost held his breath, wait-

side?" He almost hold his breath, waiting for an answer.
"That would be up to the Council," returned the Atlantide ron-commitally. "Five of my fellow Atlantides rule Shorraine, but they would call a Council for a derisine. The Council would configure

of one member from each kind of race. scientist knew nothing of magetten? time and notion. The Five bone coled "How do you overste electricity?" wisely that way through the voice of he demanded "By conversion of disrupted atoms

the people." "Democracy1" cried Carver bonoily. "You have it here proved! They would vote to belo the Allied Democraciest*

"Perhans so " Val Marmay's some warm dull "But foolish tolk. It will never come to pass. Are you still think-

ing of conquering the Soot, Barry Carver, when I have failed in twelve thousand years?"

Carver felt the crushing force of that statement. His enger thought of Shorraine's belo in the war evaporated, leaving hitterness. He felt Helene's eves on him and looked at her. She had hope!

She seemed to be telling him she belieund in him belieund be could do something preinst all recoon Constrict pulses stireed. He fored the Atlantide

"Tust what is the Spot?" he asked. *Wher is it so impressible?" I JAL MARMAN snoke delectedly.

V"It's a time-warp, in brief. Passing through from the Earth side, all electeors within the countless atoms reverse their role, which throws these into the new time dimension. But to force the

he knew he had put the idea acrosselectrons back to their original motion. seems impossible. It involves attaining a bigh potential. I have tried the titonic nowers of atomic-energy, without

avail. It is an irreverable equation, anparently of time-

"Mamerical" interiorted Carper. thought fully. "What?" saked the Atlantide. "It want be a mametic phenom-

and T Course related his experiment with the compass, when possing through "Magnetism-compass? What are

those >" Val Marmax looked nuzzled. Carver stared, his thoughts whirling Could it he possible that this master

into pure energy." "You don't use a ornerator on ormature, corner wire, martietic field?"

The Atlantide abook his head still envelod. "Good God!" exploded Carver. A

blinding light seared his mind, "Top much science, that's your trouble!" he bissed. "You've been playing around with your anti-gravity, atomic-energy

and what-not, without realizing there are such simple things as magnetic fields, rotating coils, and plain ordinary two-plus-two! I'll het the key to the

Snot is so simple, you'll cry like a buby when you find is !! Val Marrays rose in red-faced appear abelian at the sources man. For a mo-

ment he stood thus, haughty, proud, wrathful, in a pose that might have have a ploture of a loop-distant past when he and his fellows were lords of

civilization. But suddenly be releved "This magnetism," he asked, "What \$4 ft 2" Barry Carver launched into an explanation and balting though it was

An utterly dumbfounded look had from on the Atlantide's face. "Ishtu!" he gasped. "That's it! The

vital clue. At my lingertips all the time. If the polysity is resemmed the electrons ment union the other way...."

Radiant with hope, the four looked at one another Then suddenly. Carver felt a oneer

sensation. Something dark and shadoney seemed to be in the room. It howered over him and darted down sud-

denly. He felt strangely light-headed, and something was profiding in his

mind, like a mental girdet. It burned, agonizingly, as though his brain were on fire

PRISON OF TIME Instinctively, he brushed at the shadhave achieved civilization-of a sort.

owy thing around his head, trying to knock it away. His hand felt nothing save a fingling-and the burning torturing probing feeling continued The other three had been staring at him frightened

"Don't think!" barked Val Marmax. "Make your mind a blank. Carver, you're in danger-think of nothing, nothing-"

While he spoke, he ran toward the wall where a row of gleaning switches lay. Carver, bewildered and half-ponicky, tried to obey, tried to make his mind a blank. He nictured sheen summing over a fence. One sheep-two

theen-three sheen- He noticed the berning in his brain lessening And then suddenly it vanished altoother. He was free. Val Marmax had thrown a switch followed by a deen humming sound that seemed to

fill the room with an intangible force. The black shadow rose to the roof, and conished with a according screens

HELENE was in Carver's arms, then, clinator to him wordlessly. He looked down in her face and saw borror. There was something else in Shorraine, or Shorr, then these other mysteries. He disensured her cently. "What was it?" he asked frowning at the dell ache that remained in his

"The demon-people!" Helene mur-

The demon-people-the city beyond Shorraine-vague snatches of things be had beard falled to dove-tall in Carver's mind. He looked outszically at the sci-"I haven't told you the full story of

of course, is a separate world from Earth. It has its own-creatures. We of Shorraine are outlanders, invaders, in that sense. The biober life-forms

Their largest city is just fifty miles "What are they like?" Carver queried. He saw the quick looks of loothing in their faces. "They aren't-human in form," answered the Atlantide. He seemed reluctant to continue the tonic.

"You mean this shadow-thing was one of them?" "No. They have definite form. But they have a strange science, tangent to

ours. They are able to project astral forms. One of them, the shadow-thing, was sent here to probe your mind-to "For what?" Carver was astonished. Val Marmax shook his bead, "I

don't know But I suspect it was to find out what you knew of magnetism. You see, they too have a Spot, compecting with Earth! I didn't mention it before, but Shorr and Earth impinge at two points, according to their axis of

rotation. We built Shorraine around the one, but the demon-people kept control of the other." Carver whistled. "Til say you didn't tell me the whole story. In fact, only half. This complicates matters con-

siderably. What of the Earth-people who have wandered into their spot?" "Poor devils!" It was Tyson who spoke, somberly. "Having to live, on and on, as slaves of the demon-people. Suicide is probably the way out for

"The demon-people, I take it, are bitter enemics of maskind?" Carver suggested.

"They are different in all ways," informed Val Marmax. "Their formminds, aims, science-executions. It

they once had the chance to invode

Shorr," confessed Val Marmax, "Shorr, Earth, through their Spot, they would trample down civilization rathlessly. We must be careful, in our work on Spot-penetration, that they don't steal

the secret. I have this laboratory protected from their astral-spying, however, and we can safely go on."

Carver wanted to ask more questions, still quite harv about the enemy, but

Carver wanted to six more questions, still quite hazy about the enemy, but Val Marmax waved an impatient hand. "I will tell you more some other time. Right now!"—his eyes were charged

with explaint hope—"you must show me how to huild a simple magnetic circult. From that I'll learn about this has seemhow escaped all the science of his somthow escaped all the science of

Atlantis!"

Carver was already rolling up his slewers. "Where's some copper wire?"
He stalked whitesically at the thought that he was going to show a twelve thousand year old scientist, who could blow meuntains to atoms, how to make a magnetic morelle twice like a live thing.

strange world, was a busy one for Bary Carver. He spent long hours with Val Marran, imparting to the scientist all he knew about magnetism. The Atlandife caught on quickly. His trained mind lesped the paps of understanding at an accelerated pace. In a week, Val Marmax had learned as much about magnetism as it had taken Earth sci-

Marmax had learned as much about magnetism as it had taken Earth science a century to uncover. Carver was already out of his depth, but continued to help, as inhoratory assistant.

**CARVER had less time than he

withind to spend with Helene and Tyson. The girl particularly. In his seys, she gree more lovely every day, And for that reason, Carver was almost rude to Queen Etsha, who dropped in the laboratory at almost any odd hour. Carver, alert, began to wender what game she was playing. She was not the sout to do thins aimlessly

On the third day, she ran across the annoyance of Val Marmax, intent and energing as he was in his work.

"Eigha, may I ask you to leave?"

She drew herself up haughtily, heavylidded eyes insulted. "You forget I am a Queen, Val Marmart" she purred s, dangerously.
"Were a queen," reminded the Atdl. lantide tactlessly. "And never mine

minute licticisty. "And never mine anyway." Carver saw her quick, humilisted flush, and had an inkling of her feel-

thush, and had an inkling of her feelings. He almost plited her. Once proud queen of a great people, in a glorious era, and now a common memher of a democratic society, surrounded by an inhulgent pretense of her former royal authority. It must hurt—espe-

royal authority. It must hurt—especially through twelve thousand years of memory.

Perhaps she saw the sympathy in his face. She turned to him. "FII keave. But will you dime with me, toolebs.

magnetic needle twist like a five thing.

Barry Carver? Sometimes I am so—
The following week in his now, alone:

we alone:

At the point of relating Carver field

Carver. He spirit loop hours with under the hymosis of her eyes. They

Marmar, imparting to the scientist

the knew about magnetism. The Ab here limited say "wee".

hear himself say "yes."

She swept her clook about her glorious figure and left.

Val Marmax shook his head. "She's a queer cose," he confided. "She saw

a quere close, in commons. The saw much of the destruction of her land, Mu. She almost lost her mind. For a year, in Shorraine, she hircoded and even tried suicide. But she came out of it, and since then has created a new empire—of lovers. She has had the

pick of men, from the lowest to the high."

Carver glimpsed a dreamy look in the scientist's eye, but said nothing, smil-

ing to himself. The things of Shorraine, if ever the world heard about them, would fill many libraries.

Usbered into the queen's presence that evening, Carver's heart beat faster. She was a dream of brunette beauty.

clothed in sheer robes, with soft, strategically placed lights to bring out ber leviliest charms. Almost, he retreated.

But again a subtle magnetism gripped bim. Perfume mounted headily to his intoxicated mind. She told bim of Mu as they ate, a heavenly land in a golden era. It was

a spell of enchantment, with her low, busky voice billing his senses. A rich. writherly wine more delectable than any be had ever tasted in Earth, did more

to confine him till he had foresten all but her mitching presence. Dimly, it the back of his mind he thought of her cost her real way but it was a lost voice The food cleared away, she sat close

"Kies we!" she commanded softly. Curver gripped himself, "You're a coren." he tried to say casually, "Not tenirly " she whispered. "To-

night I'm a woman-a longly one. I-Corver, leaving toward the alluring line cought something in the corner of his eye. A black something. His confused mind tried to snap alert. That

black thing was-dateer! With a cry, he leaped erect and pulled from his belt the hand-projector that would spray high-frequency waves through the room. Val Marmax had given it to him, as a protection against astral visitants. The black, formless shadow, about to envelop his bead, quivered and pulled soundlessly into the celling possing through matter as

ARVER snapped off the instrument The shadow-things, of all the queer things in Shorr, decidedly apocaled to him the least.

though it didn't exist

Ouren Elsha did not seem too disturbed. "It is nothing new," she said "Sit down, Barry."

"No." The spell had been broken. and Carper realized hose close he had been drawn to something unworthy. "I you't be next on your list, Oueen El-She flushed angrily. "You think you

lose that Helene child?" she blazed. "I'm coing to marry her" said "You prefer her to me, wretch?" It was the Open of Mu talking, imperiously. "She has washed out eyes, skin-

ny limbs, a simpering smile. What can you see in her, fool?" "Youth," said Carver, brutally frank, turning to leave. He had one alimpse

of her ince before he left-a blaze of fury. What was that expression about a woman scorned? Carver laughed, and forest about the Queen of ancient

The following day, Tom Tyson brought the news that Carver was to be given an official welcome to Shorraine by its "rulers." Carver smiled. "After I've been here ten days, nicked its number one

beauty as my future wife, and started collaboration with its chief scientist!" "What is time in Shorraine?" murmused Tyson, with a reflective air that betrayed the middle-aged maturity behind his boyish face. "Once, through

an error, an Italian of Columbus' time lived in Shorraine for a century before the Five heard of him. His entrancedate, corresponding to 'birth' in Shorrame, was never fully settled in the rec-The headquarters of the Five were contained in the central and highest

towers of the city, a combination of naloce and husiness office. Here were brandreds of clerks and administrators. conducting the daily affairs of Sborrains and its million inhobitants. It was a smooth-running organization, long since brought to perfection, as

nearly as man could achieve. The receiving room of the Five was bare, simple, a symbol of their own cor-

nizance that they did not "rule" Shorrains sutocratically. Dressed po differont than the rest, the five Atlantides were old, patriorchal in appearance.

Their eyes shone, as Val Marmax's had, "Democracy!" stated Carver with culm coal wisdom. They looked at Carper as though weighing him on

the snot as they doubtless had so more One of them stepped forward

"Welcome to Shorraine!" he said in expect. But he started a little as the Atlantide thrust out his hand in a gesture that likely had never been known civilization would be a perfected model

in Atlantis. Carver gripped it warmly. Tyson gripped. "I taught them that," he whisnered

in an aside. "Since there is no return from Shor-

raine," spoke the Atlantide, "you, Barry Carver, were a citizen of our city the moment you arrived As such, you will respect and obey the laws of Shormine, and the common good. We are not your rulers. We are a living Constitution

never ourselves deciding the application of fundamental articles laid down ten thousand years ago, when this governmens was founded. You understand?" DEALIZING there was no stilted

formality in this, Curver nodded and then asked, "What of the first two thousand years?" "Evolution of government," smiled

the Atlantide, nodding as though commending the question. "During the building of the city, everyone worked with a will, to found a lasting home. Then came the thought of government. In two thousand years, many forms were tried. At times"-his eyes grew a little sad-"there was even struggle.

resolution. Also, for a century, a desnot ruled and there was near chaos. He was assassinated, finally. Anarchy, too, prevailed for a while. But the light happy combination of personal liberty vails today. It has lasted ten thousand

veass."

"It is nearest to that in your time." served the Atlantide "Rut-superior" Curver couldn't doubt that of a form

of suvernment that had been matured tribel role. He realized that if the Soot were conquered, one of Shorraine's most magnificent contributions to Earth of government, tried by the fire and

sword of time. And without dictatorshin!

"And now," the Atlantide resumed, "we have been informed of your work with Val Marmax." His grave eyes shone eagerly. "We hope you succeed in penetrating the Scot In that event, perhaps many of our citizens will perfer to an back to Earth But some will remain and there will be intercourse be-

tween Shorraine and Earth. We have long awaited the day." Carver looked at their five face-"I think we will succeed. Val Mar-

max is beneful." He named. "There is a great war out there, today, as you must know. Would Shorroine belo the

side of the Allied Democracies, against the threat of dictatorship?" "The People's Council would decide " The Atlantide's voice was non-committal but Carser read much in their

glances at one another. "When the Spot is definitely penetrated, a Council will instantly be called. If our intervention in the war is voted upon, the details of ships and armoment will immedistely he settled."

"Good enough," said Carver, On the way to Val Marmax's Inbotatory, in their ship, Carver thought again

of the Jananese force he had spied striking into vulnerable Allied territory. "How seen could Shorraine" asked "sond out an perial force?"

"Quicker than you think," Tyson spoke excitedly. "I've been thinking it

PRISON OF TIME raine were open. Tyson and Helene over a lot, since you and Val got to-

gether. There are at least ten thousand light, fast ships. Mounted with the beam-run, they'd be a match for ten times their number of Earth shins-ar least the World War kind. Ten-speed. con miles an hour. Can turn on a dimewith gravity-brakes. Beam's rangea mile. Power-source, one cabbage-

sized atomic-motor. Fuel one hotful of sand. Insting 48 hours. How does that stack up with your modern shing?" "Okay," asserted Carver, "But I'd need more. You can't stop an army with that. You need bombs to blow up

and out off all ground lines of communication and reinforcement." "All right. How about one thousand

ships, big ones, used around here for builting building material. They could carry all the bombs you rould load on the deck. Atomic-bombs-one would make a mountain fold un!"

ARVER grunted in approval. "But bow lone to turn out all that? The Isp army I want to stop, if possible, will

smash through in three weeks." "Robot machinery." reminded Tyson, "Overnight, practically," His eyes alistened. "Boy, the chance to

bring a few more Boches down! You hove more than Boches in this war, but the enemy's the enemy. I'll finish up where I left off in the last war." "If we get through the Spot " Carver was suddenly pessimistic. Perhaps the

Snot mor immenetrable, and all his horses built on sand. Was it possible for his simple suggestion of magnetism to unlock the door to Earth, when Shormine's super-science had battered

against it in vain for twelve thousand years? It almost seemed too much to It was just a week after Carver's first

visit with Val Marmax that the scientist set up his experimental appearatus within the Soot. The mant mates of Shor-

were there, and Provides was on guard against beasts but no others. The coneral populace bad not been informed. Some few watched idly from the nearer avenues and windows unowere of the importance of what they want Carver had helped set up the triped,

upbolding the apparatus. A small, powerful electromagnet, keynote of the instrument, humaned as Val Marmax sent power hissing through it from a nearby

atomic-scacrator. The scientist indicated the slow twist of a magnetic nec-"When it points straight out toward Earth, the way should be open." He

washed his bands in the air nervously "Anything thrust through the magnetic field should reverse the spin of its electrons-enter the normal Earth dimension. Ishtu be kind(*) Finally the needle pointed quiver-

ingly straight through the Soot, like the finger of Fate. The machine same as its energies buttled the atrance time-stricture. The apace through the field-coils of the marnet turned from blue to soft

vellow. The stare of the Sabara? Carver crossed his figures in hone Val Marmay, drawing a heeath tossed a ring of metal through the more net, out toward the mirage of Earth, They mn to the other side. The ring was not there! The Atlantide Hebted a peculiar handflash in whose circle of

strange rays the sands of Earth stood out clearly. He played the ultra-light around till suddenly the metal ring leaped into sight. It had gone through the Spot safely

It rested now in the time-dimension of Earth.

Val Marmax stood motionlessly, then, staring as though he couldn't helieve. Carvey wondered what his thoughts must be he who had striven peaselessly for twelve millennia to accomplish this miracle. The erientist

turned suddenly, to look at Shorraine. "Armed ships, to help my side in the II was the glance of a man who sees release from an ap-leng prise. Kind of large magnet for that purpose?" I. Tyson brobe the silence. "No, there is a better way," returned "If that susce was bite roough. Id the scientist throughfully. "Til have

"If that space was big enough, I'd the scientist thoughtfully. "I'll have crawl through right now!" he threat-individual units mide, spraying out the magnetic force, to be mounted at each

ened. Carver swept Helene Ward into his arms. "You're going to get your church

welding, durling!" he declared. "Any church you want—on Earth!" "On Earth!" echoed the girl happily. "I suppose I should wish you two ev-

"I suppose I should wish you cry happiness?"

"THEY turned, startled.

16

THEY turned, startled. It was Queen Elsha. They hadn't seen her come up, from the shadow of the wall. She pared at them a queer mockery in her eyes, as though they were children who musued her. Apparently, Carver thought, she bere him no antipositive for many control of the control of c

their list meeting.
"Thanks, Queen Elsha," Carver acknowledged, but realized that she had

not actually given the wish.

Her dark eyes turned interestedly on
Val Marmox's Spot-penetration apparatus. "The way is open—to earth!" she

And this pertinent came in a rising nurment that waited from the towering, city at their backs. Up on the wait, Proudes had yelled into his televisor. With the switness of light, the news went around the city. Faces began to peer from all windows, roots, from ships that durted gracefully near. A city of immertals mixed its voice in thanks, to

a hundred different gods, that the advanced will so the prison of time had fallen.

Val Marmax gripped Carver's hand.

"You showed me the way," he said with frank honesty. "It is done. The time-warp can be simply nggotleted hank to Earth,"

"I want ships to go through the warp," said Carver, predictably.

magnetic force, to be mounted at each ship's prow. They will sail right through the Spot, then, into the Earth dimension."
"Good!" Carver was jubliant. "But week fast. A fleet of ahlps must leave within ten works. Every rejoints."

ounts!"

The scientist smiled, "I have lived or twelve thousand.

for twelve thousand years. Now, suddenly, every minute counts! It is as though Fate's threads had all suddenly gearled. Strange! But I'll week out the individual units reminds? he presen-

leed. He went on a bit pridefully,
"Your science gave me the key I
needed, but I will in one night work out
what any of your scientists would take
a year to devise."
"Case I help?" offered Caryer.

"No, but I think Helene can. She knows shorthand. She has helped me before. I'll dictate all data, usecifica-

tions, and plans for their manufacture to her. Tomorrow, the factories will begin turning them out." Carvor suddenly whirled, tecking out

his high-frequency pistol. He sprayed its forces over the Spot apparatus. A black shadow that had been shinking around its contours awirled off into the sky.

"An astral spy!" exclaimed Val Mar-

max. "The demon-people are trying to state the screet. We must be on guard-My laboratory is protected from them. But tomorrow, when we begin mamfacture of the units, we will have to guard the factories." His face was pale. "Better that we saver had found the way thus that the demon-people should invoke Earthy."

First he went to the Five, informed them of the experiment's success, and asked for the Council on war. They readily agreed to call it the following day. Then, with Tyson, he had written down tentative plans for a war fleet, to be presented to the Council. When Tvson left. Curver called the laboratory. Helene's sweet face obosted into the visi-screen "Bosy, darling?"

"Yes, but hence!"

"I keen morrying about those damned

black shadow-things," Carver muttered. "Are you sure you're safe there?" "Perfectle!" assured the eld balf chidingly. "Val Marmax has taken the added precaution of having his whole laboratory surrounded by guards armed with beam-guns, in case the demon-people tried to spy around in person. Now don't worry, and get some sleep. You've

week." "ARVER hune up with a restless C feeling. Now that events were coming to a climat, his mind seethed with vague fears. He stepped out on the helcony. Josking over the city of mystery. It lay like a timel fairvland. in its own towerlights, incredibly beau-

tiful, acc-old, weird. He looked up. There was no moon in Shorr's skies, only a firmament of strange, flery stars, Perhaps the native people of this world had charted them into constellations of their own. His hand unconsciously printed the butt of his ways-gun as he thought of the demon-people, and their

eerle astral wanderings. He heard the buzzing of his visiphone and went to answer it. The face of El-ha, Queen of Mu, greeted him, "Barry Carver," she pleaded, "I want to see you. It's important, Please

come come right name !! "No!" snapped Carver. She argued, and all the while her eyes

cast its spell. Agreeing finally, he reflected vaguely, as he went to the ship terrace, that mere man could not fight the magnetic affore that the woman had huilt up in twelve thousand wears of practice. But he promised himself savandy that he would tell her once and for all to give up the chase. Pointed insults would repulse even her. He steeped into the witchery of her

were on his. He tried to fight their in-

fluence but again a subtle hypnotism

presence, and the straight-laced words he had thought up came out haltingly. She smiled through it all, though he sensed the suppressed fury behind her lidded eyes.

"All right, Barry Carver, I understand," she said calmly. "I drink to your happiness-with the woman you choose." Carver did not think of her odd use

been driving yourself too much all of tense in the words till he had drunk half his glass, in relieved courtesy to the tonat. He set the glass down. "What do you mean-choose? I

have chosen already." He placed at her, but suddenly his ews arram. His brain reeled. He stacpered to the couch almost falling. Elsha was close now, peering into his eyes-waiting. The thought ham-

mered in Carver's mind that the drink "The woman you-chose!" repeated the Outen of Mu, "And you choose me.

You love me. Barry!" And suddenly it was all clear to

Barry Carver. He loved her, the Oueem of Mu. Of control She was a plorious, desirable woman. How had be ever thought Helene Ward was the one? His head sank to ber shoulder. Babbline words of devotion came from his lies. His voice seemed to come from

roaring distance.

Then hers, though in his confusion be could scarcely understand what she

asid. "I will be queen again! A queen needs a ling beside her on the throne. You will be my king, Barry, beloved. More then any other man, in twelve thousand years, you are my choice. We will rule Shorraine, you and I, even after the Spot is oppored. They have premised me that."

after the Spot is opened. They have promised me that."

Carver's bred came up, dizzily,

"King? Rule?" he munbled. "I don't

—understand." Dim Instincts of warning worked within him. He staggered

ing worked within him. He staggered to his feet.

"Yes, go now, Barry," she said. "Go back to your room and sleep. Tomorrow, it will be clearer to you. You will come to me in the morning."

MUTTERING, Carver stumbled to his ship. Eighn's servant quietly piloted him back to his quarter.

turmed. He was sure of only one thing—that be loved Elsha, Quren of Mu!

He awoke with a hand shahing his shoulder frantically. It was still night, with draw about to break. Tom Tv-

son's boyish face, agod now by some urgency, peered down at him.

"Get up, Barry!" His voice was hoarse. "Something's happened. I just get the call from Proxides, and came

"Whet happened?" demanded Curver, fully arrake.
Tyson's lips worked. "Val Marmax

is gone! Taken by force! By—"
"Yes?"
"The demon-people!" Tyson's young

face looked baggard.

short while their ship descended to the great gate's parapet. Provides came forward, nursing as arm whose birep was a tora, bloody mass that he had hastly bandaged.

"Just touched me as they went by," he greated. "Jove came therm—"

carrier stopped his flow of Greek inne. vective. "The whole story, from the
heginning!"

I saw the ship stant down to Val
W Marmarch's laboratory. I soldom slope for at night; time crough in the day. It
landed on the roof. A few minuses
latter I saw a flash of a grard's becomthe roof. The hole sawne my

gun, on the root. The ship swung up, and some blasting force from it taled the guards out like sticks. As it slanted past me, I took a pot-shot at it, and got this." He towheel his arm, "It was the demon-people. I saw their devilish cytes."
"But why dish!' you sound the alarm when you first saw the ship?" groened

Carver. "And the guards—they let them get into the laboratory!" "It was Queen Elshu's ship!" returned Presides. Carver gasped, looking at Tyson. "That's the only reason they suc-

"That's the only reason they succeeded," said Tyson, "Quren Eisha is allowed to go anywhere she pleases, at any time, without question. She has always done so, She want knye helped

Confusion rose in Carver's mind. Could she have done such a traitoreus hing, leagued beneff with the demonprople? And last night—had she drugged him, perhaps to make sure he wouldn't interfere with the abduction.

It was a horrible indictment against the woman. He was unwilling to helieve it. "There's one other thing, Barry," Tyson spoke slowly. "Helene—was

Tyson spoke slowly. "Helene—was taken too!" Carver shook. For a moment he stood stiffly, corouering a wild rage. Then he

stilly, conquering a wild rage. Then he motioned to the laboratory. They descended to it. On the roof lay the bedies of the slain guards, Moudily tern as though by some internal bomb. Typon evaluation, from what he had heard that

the demon-people's weapon was a telekinetic disrupting force.

PRISON OF TIME

Down below, they found a group of bewildered guards conversing. The laboratory was a ruin, obviously blasted by the force-weapon. Not one scrap of Val Marmax's scientific labors on the Spot-penetration was left. The smards' story was the same as that of Proxides. No one had bothered to watch who or what came out of Oucen Elsha's ship in the darkness of the roof. Suddenly they had beard poises, screams. By the time they had arrived, from their various posts, the ship was gone, the dam-

"IT'S all plain," muttered Tyson, "Ouren Elsha led them below. They worked just, secretly. And now the demon-people have Val Marmax in their hands. They'll force the Spot secret from him-invade Earth!"

are done.

"Come on!" cried Carver. "We're eoine to see Oueen Elshy about this." "If she's there," said Tyson, "She may have gone alone with them-"

But they found her in her anartment weening loudly. Even her tear-strained face was incredibly beautiful. On the floor lay her servent, in a roof of blood from his own shattered skell.

"I know something terrible has happened!" she sobbed. "An hour ago the demon-people came here and took my ship. They killed my servant, tied me," She pointed to strips of silk on the floor. "I just worked free. What did they do with my ship?" She stared at them with innocent apprehension.

The two men looked at one another, If it was acting, it was marnificent. Tyson's line writhed "Pretty thin althi. Oncen Elsha." he snanned. "You know very well that

abducted, guards killed. You were The woman gasped, as though the news stunned ber. Then she rose with outraged dignity. "Dog! How dare you!" she spat at Tyson, "Did you see me there? Did anyone see me there? How can you make such unfounded accusations!" Tyson growled. "Yes, some of the

guards saw you!" Carver waited to see the effect of the

bluff, for any guards that might have seen her were dead. For himself, he was in a quandary. He had seen no sign as yet of quilt in her words or ettitude. She might be the picture of in-

poceace she presented Ouren Elsha tilted her face haughtily, ignoring Tyson. She turned the full power of her glorious eyes on Carver "Barry, this hoy is insulting me. But

you aren't suspicious of me, are you?" She held out her arms, "You haven't forgotten last night-kiss me. Barry!" Carver made no move, except to shake his head. "Last night-what a

fool I was!" he murmured. For the first time, the woman's eyes showed perturbation. "But you love me!" she declared

"No." denied Carver. "I don't know what kind of drug you gave me last night, but I know that the effects have worn off. I-

He was interrupted by a sharp cry from Queen Elsha. Her hand went to her mouth and she fell back a sten. Some violent emotion worked within her -disappointment, frustration, then

hysterical rage. "They tricked me!" she rayed. "They told me it would last for yearsforever!" She was sobbing again-

considery. Carver sensed-and recolly going to piecea. Carver leaped forward, his own face working. He grasped her by the shoul-Val Marmax and Helene Ward were

ders and shook her "Who's theythe demon-people? Out with it, wornan. or I'B-" He raised his hand threateningly, determined to get the

truth out of her

She didn't wince at the gesture.

Something else forced ber to speak, within herself. "Yes, the demon-people! Oh what have I done?" Her tones were almost a shrick Carver forced her back on the couch and shoped her face lightly, "No

bysterics," he ground out, "Why did you do it ?"

Composing herself with an effort, she looked up at him. "For you!" she murmured unhappily. "And for my-kinedom! I wanted you

from the first, Barry. No man, in twelve thousand years, has ever stirred me more. And your resistance, your scorn draw me-mad!"

CHE swallowed and went on, in a dry defeated voice. "They came to use in astral forms. I made a bargain with them-for a love-philtre! The demonpeople have a strange science, almost a soccery. The philtre would give me your love. And in return I would help them abduct Val Marmax. Also, I was to help them conmer-Shorrainel Among the men who man Shormine's defenses. I have many desorted-

friends. They would do my hidding let the demon-people's ship past, to attack the city. In return for that, after the conquest, I would be made Oueen of Shorraine. Even Inter, of part of

Carver listened with incredulous amazement. Monstrous bargain! Yet dimly be could understand. It had rankled in her mind for twelve thousand years that she had once been a ouren. And she had never before been balked in love, most likely. In a mad moment, she had seen the chance to attain both her desires, bergained with the

blooded indifference "Good God, woman!" grouned Carver. "Do you realize what a borrible thing you've done? I don't know much about the demon-people, but you've

given them the chance to invade Earth. If they worm the Spot secret out of Val Marmax and then kill him, we won't even have a charge to name the outside worldto The proud Oneen of ancient Mu hung her hand "It was madness!" she

mouned. "If I could only undo it!" "Too late now," growled Tyson, His eyes reviled her. He turned to Carver, "Something has to be done."

Carper was paring the thick rue. fromning in thought. "There's only one thing I can see. Attack the demonneonle-now? Stop them from going on. Destroy them completely if pes-

sible!" Tyson shook his head, "Afraid it wouldn't be so easy, Barry. They're well armed, the city fortified. Shorraine has had battles with them before. trying to rescue the poor souls they've enslayed, arriving through their Spot." "But surely the science of Shorraine

is superior to theirs?" "They have their own weapon and quest" returned Twon cloomity. "Through the centuries, they've monaged to steal scientific secrets, with their damned astral spying. They even have robot machinery, modeled after ours. In a drawn-out war, they'd have the superiority of numbers, too. We might win, though, even against those odds,"

He shrugged fatalistically, "I suppose it's the only course left." "Walt?" Carver whitled on the Opeen of Mu. "When are they supposed to attack

Shorraine?" The woman looked up spiritlessly, "Tomorrow."

enemy, sold out her people with cold-"And they don't know-" Carver suddenly jerked out his high-frequency

> slithered into the room. It puffed away with its peculiar telepathic scream as the wave-gun hissed.

PRISON OF TIME

"They must be suspicious," resumed Corner "But they don't know that Owen Eisha has told her story. Shorrame will meet them temperors with full force Let them wear down their forces a little, attacking. Then Shorraine can attack." He went on rapidly. "In the meantime you and I will so to the demon-people's city!"

TYSON stares. Vhat..." "VSON stored. "We'll be killed or

"Corner Flebs will take us " Carner

said tersely. "As converts, friends to their cause, or something. Anything, just so we get into their city safely. We

have to try rescuing Val Marmax, and Helene!" It was a wild scheme. Carver knew. but every moment that Val Marman eras in their hands counted against Shorroine and Earth And Height he wouldn't have a moment's peace till

he saw her again, steed at her aide, no matter under what circumstances "I'm same." Typen said simply. "Will you do it. Oreen Elsho?" queried Carver. "Get us into their

city on some pretext?" She started to though coming out of a worried dream. "Anything yes say. Barry," the nerred tonelessly, "Anything to-atome!"

Before the Five, a short time inter Carver gave the full details in helef phrases. The alarm had rune through the city, over the abduction, but none had known the full story. The Five leoked with terrible scorn at Oneen

Elaba and she shrank visible. "Flahs," said the synkerman, "you have done on incelestable horm. Five bundred years and you femented a minor revolution amone your-friends. You cave a peomise afterward never to broken now. Your punishment-"

have the Council place us on an immediste wartime footing." He slanced at Carver. "You are a brave man, Barry Carver. We wish you look for your own sake as well as for the good of Shorroine and Earth!" A few minutes later the craft hearing the three second up and darted over the spires of Shormine. Wild looking land, unearthitke in aspect, flew be-

thing is storming the enemy. She has

to take us into their city. We'll do what

we can to sesone Val Marmax. In the

meantime, protect Shorraine from their

attack tomorrow. And then attack

them, whether we some buck or not!" The Atlantide nodded. "We will

neath them. Strange slinking monsters crept in the shadows of mushrooming vecetation. Far in the distance, once, they saw the bulking shane of some earthly dinosaur. Carver shuddered. Shorr was a forbidding, depressing world. Small wonder that the immortals of Shorroine would enserty leave it at the price of death Phorey the city of the demon-pec-

ple, climbed over the horizon like a black, cubistic monster. Copied partly from Shorraine's alies grace, it was a twisted parody, as though issure minds had been the architects. The huilding material was all of blacks and hidrous hlues and nuroles. The demon-people

Mirely saw Hebter colors only as green When they had approached within a wife. Town brought the chip to a bult howering on its anti-gravity plane.

"We're liable to get shot down if we eo any closer without being expected." be explained.

Carver saw a black outral shape materialize over their heads. Oners Elshe shook her head as he was about to draw his wave-oun. She was more comsesin raise trouble which you've posed now, and waited calmly as the mosterious thing settled about her head.

"Never mind that!" snapped Carver. like an intansible vampire. She record to listen for a moment "Now that it's done, the important

and then spoke aloud. "I wish to see Sha-tahn. It is important." Assis a page, "They are friends of mine-and of Phorex. I have a plan, relating to them, for Sha-tahn to hear,"

THE astral body hovered for another moment and thun duried up from her head. It floated to the prost of the ship and moved forward as though owiding the week

"Follow it," the Ouern of Mu said to Tysen. "It is well so far. We will have an audience with Sha-tahn, ruler of all the demon-months. I'll contrive to find out from him where Val Marmay is kent prisoner."

"And Helene," added Carver. He looked at her grimly. "We're taking a his chance with user Oosen Flebs. If heat-gun in his belt suggestively.

Tyson took a breath and moved his levers to follow the astrol guide. It led them slanting down to an immense building factor a great gate of dall metal. The other Spot! Through it. if they had the chance, the denizers of

Shorr would awarm, toward Earth, They landed on the roof. Carper notheed with a way order that the building's several towers all leaned. Four structural engineers. Their ghostly guide led

them into the gloomy interior. The halls were so dimly lit that they could barrly see their way. The demon-neople hated light. Carver conjectured. He saw several dark forms, solid ones, but couldn't make out their shape. He hadn't as yet seen one of the enemy and

wondered what they'd be like. They finally becarehe un against a correction stained matel does. The nated being ment through her the sinitors bad to wait till it opened. The chamber beyond was more lighted and his lower taw dropping. He stared at the creatures eathered in a little semicircle. They were satural. The satura of mythology with furned hestial bedies, hind hooves, arched tails. From the waist up they were faintly human. with manifee arms, bands and shootdays. The faces many extende-pointed eurs, flaring noses protruding jawa end her and tiny home at the temples | Papulsive, allen, faimical,

Carver would have been less surregiond to see opentures with five less or two hends. But satyrs, out of the pages of mythology-coincidence or not? He felt himself at the verse of a blinding revelation.

He tore his eyes away from their gareavle countenances, to look around. His beast leaned to be says Unless at the side held fremly ber the army. She called his name, but he had to ignore her, playing his part. He tried to tell

her with his eyes that he was supposed to be a represide below of Owers My inthe plot against Shorroine. Oueen Elsha, playing her part, spoke: "These are two men who have prievances and will help fight against Shor-

One of the black-akinged octoor out off from his fellows by a roleralike but. leaned forward in a carryn seat, rolling his redly gleaming eyes over them. He

smiled slowly. It was evil incarnate. "You lie!" he stated, in hissing Eso. lish, "I read your mind, before, with my astral projection. We are masters in such things. The big man is Barry Carver, here in the attempt to rescue

Val Marmax!" CO suddenly and completely exposed, Commela institution assettles and to lash out his best one. But two of the demon-beings had already leaped like

Corner strede in with the feeling of deer and wrested it out of his hand. Then they held his arms in viselike arine. Truom was similarly disarmed

walking into a lion's den-He stopped short after a few steps beside him

Shorr?

Queen Elsha stood in mute dismay. Curver saw that now, clearly, she undestood how she had heen duped and led on by the enemy, to her own undoing.

The leader of the satyrs thrust his heutal face forward.

"I am Sha-taha," he announced, "ruler of Phoryx. These are my licutenants"—he pointed down the line— "Zoroester, Belial, Beelarbub, Python, Asmodeus, Merizim, Apollyon, Asto-

roth, Mammon. You have heard the names before, Earthman?" Curver grasped. Those were the names of all the evil "gods" in man's re-

names of all the evil "gods" in man's religious history. And Sha-tahn—was that Sofon! What mad riddle was this, more buffing than anything else in

The satyr ruler answered, in part.
"We have been able to project our astral images into Earth—by a psychic
science you would not understand—
and in some manner away the lives of
men, in the past. But soon we will
sway them completely. You, Barry

men, in the past. But soon we will sway them completely. You, Barry Carver, have made it possible, with the secret of magnetism. Look!" He swept an arm and some of the

He swept an arm and some of the says steeped hack. Beyond them, as Carver, peered closely in the diss lighting, be saw Val Marrans for the first time. He reclined on a couch, eyes closed, breathing slow Around his bead, almost obscuring it, was an astralshadow, pulsating like a zereal leech foreling. And it waist Nearby, seralbiling hindly on thick shees, a doner says recorded the telepathic messages

toning insulty on time's states, a duager sativars recorded the relequisht messages from the astral prober. Carwer lurched forward angrily, but the satyrs held him back. He realized what they were extracting from Val Marmar's mind—the secret of Spotpenetration! Suddruly the satyrs stopped writing. The sarrel shadow vanished on one of

them penched a switch on a panel. Val Marmax sat up, dazed. Agony leaped into his eyes, mental agony. He spied Carver, started, and then shook his head. "They have the secret. Barry!" he

"They have the secret, Barry!" he grouned. "I tried to resist..." He began sobbing brokenly.

"Yes, and from the girl we have already extracted another secret," spoke Sha-tahn, "relating to the Earth warthat a Japanese army marches to the Indian seal" Carver torked. Did these devis-

literal devils?—plan to help the Dictatorship Coalition?

Partly reading his thoughts again,

Partly reading his thoughts again, Sha-tahn nodded.

"When we have penetrated the Spot, we will smash all encountries to that

we will smash all opposition to that army. We will bring victory to their side, helping in other campaigns. It will be an easier way to gain dominance of Earth—our long-awaited aim. We will bargain with the Dictators and become Earth's news...elicion!"

He was leaving much unstil, Carver
y sensed. Something unspeakably horehie lay behind his matter-of-fact planRage shook Carver. "You have no
e night to meddle in Earth's affairs!" he

is shouted. "You don't kelong in Earth?"
Shatatan grinned cellty. "We have
is had more to do with Earth's affairs than
is man possessed of the devil? Prosessed
of our sitral peojection! "Many of your
competence of poss history were guided
by us, in that way. But they always
isil, at the best This time, they won't!"

in sail, as the best. This time, they went!"

He waved his arm to norber dark corner of the chamber. Carver save at line of men, humans, standing stiffly, def Their eyes were wide, unblinking, they a straight, reducture emotionies. A word futuled in Carver's mind—aconhies? Mindless, dominated creature—posessed of the devell. Pose unfortunates of two heads suggered through the Spot dwo hed suggered through the Spot dwo hed suggered through the Spot

from Earth into evil Phoryx. dangerous alive," He turned, "As for you, Queen Elsha..."

CARVER'S eyes flicked down the line and then stopped on one figure. Angular face, lick of hair over the iterhead, small mustache—Hither! No, he must be wrong, mad to think so! He leoked sgaln and knew he could not be mistaken. Carver staggered in the resilization. The druitgod whose assessit-

mistaken. Carver staggered in the resilization. The demigod whose assessination had percipitated the great conflict on Earth—alive here in Phoryxl Madness!

Then Carver remembered the pecu-

a nen carver remembered at the poulliar circumstances surrounding the former dictator's assassination. His plane, flying over the Sahara on a visit to newly gained African colonies, had been attacked, abort down, in a deep-hald anasassination plot. But when the wreck of his plane had hern located the most day, all hofelies were accounted for eathy, all hofelies were accounted for

cept his! Obviously, he had survived the crash, staggered away and reached Shorr, exactly as Carver had. "You see?" said Sha-tahn. "I have military Eurth minds for keskership in the earmisties, to bring about a smashte samusless. to bring about a smash-

tamany Farra mous for insecrange as the campings, to living shout a emishing victory for Dictaterhip. Beside the man you know stands Genghis Kahn, from the past, who, unknown to your interce, was esided to the desert and reached Shorr. And those others—generals and conquerors all. They will rule Earth, and we of Phercy will rule Earth, and we of Phercy will

will rule Earth, and we of Pheryx will he lits—religion!"

Carver's mind rebelled. It was all such a frightful maze, involving Earth's past, present and future. Phoryx, a litcral hell, whose spawn of evil would soon hurst out over Earth like a poison-

ous tide!

And, in the final analysis, Carver himself was to himme.

"But enough!" burked Sha-tahn.

"Take the prisoners away. We will check the Spot-penetration data. If it works, they will he killed. We will have no more need for them. They are "You deceived me!" she shrilled.
"You told me the love philtre would
give me his devotion till the end of time.
Its effects were over the next morning.
That is why I betrayed you!"
Carver had to admire her sudden de-

fince, in the face of a probable death sentence. "Rash creature!" said Sha-tahn

ext calmly. "I wanted to test you. I can make the philire to hait longer—weeks, years. I will give you mether chance, ee. Queen Eisha. Go back to Shorraine ne, and reduce its defenses. It must still to be destroyed."

had The queen's manner changed instantly, from fear to with hope. "And rick Barry Carrer will then be left alivement for me?" she demanded.

"The heing known se Sha-talin hesitived
tasted and then nodeled, has with a hidded on moderry in his eyes that Carrer

"The bounds of warning the queen."

e against trusting a —devil. But he a strugged. He have the queen's truch-cross nature wouldn't listen to reason.

Besides, it wouldn't make any difference to him, in any case.

The Queen of Mu looked at Carver, the structure of the page of the control of the c

with a rapt, eager gaze. Then she whirled, on her way lack to further betrayal of Shorraine. "Witch of heil!" hissed Curver.

"Witch of hell!" hissed Carver. Queen Elsha stopped, glanced at him once, then went on, leaving the room.

Carver looked around. Was it hopeless to think of escape from these 1 Sends? He caught Tyson's eyes, saw the question in them and the spirit or daring. They had come in the attempt to rescue Val Marmax, against odis, Why not try it now? Carver winked thighty.

A Stheir captors pulled at their arms,

A Stheir captors pulled at their arms,

to conduct them away, Carver
thraced his feet and lerked free. Tyeon

did the same and the two launched themselves at the geards holding élètene and Val Marmex. Carver jahbed at the nearest satyr's ugy face, evodings his clutching hands, and was grinly sattafied to see him rock on his beels. Then he water from the floor and

knocked him cleanly off his feet—or hooves.

"Take that, you hinck..." The crack of Tyson's hard fist on an unprotected chin supplied the rest. Tyson continued to revite them, nunctuating his words

with lightning jabs.

The satyrs fought hack clumsily, crowding around. They were inordinately light, despite their hull-like huild, and knew nothing of the art of fist-fighting. Squealing and shouting, they milled about, exposing themselves to stiff-arm counties that much thir necks.

snap back.
Carver felt a grim pleasure as his
powerful blows found their marks. Human brawn was decidedly superior to
the demon-people's fulle efforts. With
their sudden, unexpected outlaught, the
two Earthmen were able to clear the
saace around Val Marman and Helene.

"Come on!" panted Carver. "To that side door..." He grabbed the girl's arm and leaped in that direction. "Look out—guns!" screamed Hel-

"Look out—guns!" screamed Helene.
Some of the satyrs had drawn wicked looking tubular weapons and were alming them. Then Sha-tahn's bull-voice

"No! Take them alive!"

Carver had not stopped running.
Just as he had figured, they would be
safe from weapons. Sha-tahn would
not kill them before he was sure the

Spot-spenetration had been solved.

The four Earth-people reached the
wide, open doorway and dashed through
into the corridor heyond. Curver had
no idea where it led to, but they must
keep their freedom and hope for a

I hreak. When they were half way down
the hall, figures came at them from
tabead. But human figures!
Dull-syed, moving stiffy, they
hlocked the passage. And from behind

blocked the passage. And from behind came the sound of broves heating against the bard floor, in pursuit. Causht!

Carver peered narrowly at the men blocking the way. Slaves of the denonpoople, they were. But they were humans behind it sill. "You men!" he harked at them. "Help us!" They did not answer, hardly seemed

to bear. They had the look of hypnotized automatons. They made no move to elear the way. In fact, they crouched forward memoringly.

"Surely you'd help us rather than your masters!" raged Carver, but they stared stupidly, uncomprehendingly. "No use!" cried Val Marman.

s "Their minds are enslaved!"
"Then here we go through them—"
Carver lowered his head and charged,
Tyson following promptly. There were
solved them has they offered little core.

potition to the two herserk fighters. By the time the satyrs had come up from the rear, their party was through, "Poor devilst" panted Tyson, "Hated to hit them, Like striking dumb ani-

I mails."

They ran fleetly down the dim hall, it with the satyrs close on their beels. A large director of the satyrs are discountered before

mlarge circular chamber opened before them, with several cross corridors leading out again.

A satyr stood at the wall, speaking ag. into one of a series of small borns set

ge, into one of a series of small borns set be swing numerous stude and switches. Id. From the several corrisions, at the same be time, came more of the mind-dominated human slaves. Carver's mind, sharpned by the danger they were in, elicked by with lightning inspiration. He tesped at the lone sattry, who turned with a

and at the lone satyr, who turned with a ust snarl, and rammed his first against his a chin with all the power of his aboulders.

The satyr slumped against the wall and suzzed like a stuffed dummy, his head lolling from a broken neck,

THEN Carver thrust his face before the same hom into which the satur had been speaking. "Stop!" he welled "Do not harm the Earth-people!" Exultantly, he saw, out of the corner of his eye that the men rashing at them had obediently stopped. They were under his control, through an amazing instrument that somehow ruled their

Thus, when the satives came up, they were met by their own slaves, in battle, as Carver rapidly gave orders through the hors. Tyson veloed in oure joy, "That's holding the fort, Barry! Now, if we can find a way-"

He storned and choked. Carver whirled and saw something

black and tennous around his head. One of the astral shadows! Then three more duried down from the real. Carwer reached for a ways, our that wasn't there in his belt, and then tried to beat his head. His hands passed through the

astral shape, unbindered, And then he felt his brain on fire as something due into it with mental fineers. Helene and Val Marmax stared at him in hopelessness. They could not fight off that which had no physical being, nor could they shake their minds free. Carver tried, with all the will at his command till the sweat started out on his brow. But the weird psychic force threw a suffocatine cloud over his mind. He relayed numbby

Shoutsho's voice earne to them through the astral contact, with the sheer clarity of telepathy. "You have amused me in your efforts to escape. I've used the astral force as a last resort. You will not escape Phoryx. Go

now, to your prison,"

force, which firmly gripped their centers of will and locomotion, the four captives stepped into one of the corridors. Like robots they marched along. with the black shadows perched over their heads like incubi. Carver felt the bitterness of defeat. He tried to step close to Helene, touch her hand comfortingly, but even that was denied bim. Phoryx, he realized was truly a-hell,

Imprisoned together the four humans looked at one another in despair. Val Marmax sat with his head bowed. Types strode up and down cursing upder his breath. Helene shuddered in Carver's arms. He mechanically putted her back, but his mind was elsewhere. It seethed tortuously with the incredible revelations of Phoryx, city of hell. "I can't believe it!" he muttered.

"Have these demons been behind all the devil-worship and mal-practice in buman affairs since history began?" Val Marmax nodded

"Their science has delved decaly into mental phenomena-telepathy, telekinesis, astral projection, clairvoyanor. They were able to reach men's minch. even through the Spot, and play havon at times. The Babylonian devil-cults. pages religious. Medieval superpoturals iem weer own Salem witcheraft deback -all were manifestations of their intrusion into Earth's affairs by their paychic science. The alchemists, astrolozers and other pseudo-scientists often worked under their domination. The love-philtre, with which they heibed

theirs somehow able to unset human emotions. Evil by nature, they can only think of creating svil on Earth," TT'S a sort of scientific explanation." mused Carver, "for all the unexniziroble things in human history." He thought of something, "They're per-Under the dominance of the astral fect satyrs of Greek mythology. What's

Oueen Elsha, is a strance formula of

the connection there?" "They once invaded Earth directly."

the Atlantide admitted "Some unknown avoius of theirs penetrated the Snot about three thousand wars our Some hundreds of them went through We of Shorraine attacked, blew up the machine and its insunter with it. Those

religion, but it died when they died, and survived only as mythology.

"But no hones of their have ever been found." objected Carver.

"Their bones don't ossily," returned the scientist simply. He went on, "All other tales of sumpires chosts gromes. specters demons peoli and various

supercontural monators are a result of their astral projections mamins earth in strange shapes and forms," "But what has been their purpose?"

puzzled Carver, trying to rationalize, "It seems rather—pointless." "Pointless?" echoed Val Marmax.

His eyes went bleak, "Short is a poor world. Earth is rich. They have been trying, all that time, to find some way of making the astral projections cain substance and live on Earth Farth alchemists and so-called necromancers some empirically helpfor them all the time. It follows closely some of the

actual Earth literature about demons in another dimension. Incantations and exercising were an attempt to gain the Earth dimension through strange psychic-laws our science doesn't reveal. Luckily, it was not so easy to give their astral projections actual Earth life. The closest they came to it was from absorbing freshly split human blood. Hence their institution of wars-and the in-

stitution of humon sacrifice in pages re-Carver felt stunned, nausented, The Atlantide resumed. "But the few astral projections who did gain substance died quickly, or were killed, Here in Shorr, their method of renco-

duction is of that type-totally nonsexual. They send out astral forms. These wonder over Shorr, absorbing the blood of newly stain animals. Years later they are 'matured'-have substance. But on Earth they have always failed since their astrol projections through the Snot were weakened Yet they want Earth. They would even in Earth tried to build up a great pagen accept its death-cycle, because they could increase their numbers limitlessly

-at the expense of human lives." "So our penetration of the Spot by mosmetic mesus falls right in line with

their plans," muttered Carver, "They will invade Earth-in nerson. They'll

multiply, murder off humans-" He stonged, appalled at the stark nicture. He shook his head. "Good God! If

brought all this about? Why didn't I die out there on the desert-"Barry!" Helene's cool, soothing

voice cut off his half fewered receiveinations, "Certainly you can't be blamed. If it's anyone's fault, blame Oueen Elsha!" She shuddered, "I'll

never forget her blazing eyes, there at the laboratory, with the demon-people at her back. She said rather than kill me on the snot, for stealing your loss

from her, she'd let me be a slove in

Val Marmax ground his teeth, coming out of his apathetic stupor, "She's more evil," he pronounced, "than Shatahn himself, for betraying a whole

"And now she's some back to Shorraine." Tyson hissed. "In one way or another she'll weaken its defenses. The demon-forces will attack. With Shorraine out of the way, they'll be free to conquer Earth. Then, with their purpet dictators in power, they'll gradually prine out the human race! And all he-

ARVER said nothing. What could one say of a beauteous creature

who dered all for law? Helen of Tree. Sounds from outside and above—dail

DYNAMIC Science Stories

Cleopatra, M a d a m e DuBarry, all faded into insignificance beside ber. History repetiting itself, in the rise and fall of empires. Only this time it might be the final chapter in human history. She had destroyed the most.

be the final chapter in human history. She had destroyed the most. But Carver couldn't forget ber final glance at him, there before the satyrs. Nor could be interpret it. It had been

Nor could be interpret it. It had been a strange mixture of yearning, promise, even remotes.

They felt themselves close to mad-

ness in their dark prison. It was a dank, stone-walked room, lighted dimly by what seemed to be cold phosphorestence in a ceiling globe. In its feeble rays Carver could see that there was no opening save the door—a solid block of metal. He pushed sgainst it futilely. Barred outside. "We might us well be at the bottom

of a mountain," shrugged Tyson bopelessly.

Hours passed, as they waited for

Hours passed, as they waited for death. As soon as the demea-people had made a successful Spot-penetration, they would come to kill them. Carver too, despite Shactabur's mecking promise to Queen Etsha. Carver laughed hollowly at the thought. What a loke on her?!

anjunt necessity in the indegen. What a joke on his real from the other side of the metal door. They were here now, to kill them! But strangely, the sound was a dull hiss, like the bite of a heat-beam. A spot in the metal door glowed cherry red and family broke through. Lock mechanisms familed

inroggs. Lock measures jungoes apart.

Carver sprang forward and shoved at the ponderous door. It swamp open and in it was framed—Queue Ethali Back of her, in the corridor, lay two savyrs, guards whose paping weards still stooked.

With the opening of the door, a reals of sound had filled the scaled room.

all boomings and the crackle of unleashed forces.

"Battle!" shouted Tyson. "Above girl the city..."

ory. "Yes, battle!" eried the Queen of

"Yes, battle!" cried the Queen of Mu, above the bediam. "Shorraine has attacked. You can escape, in the excitement. Follow me—to my ship!"

Quickly, she handed them each a beam-pistol. Curver stared at her a moment, wonderingly, then took the lead. A black figure appeared at the ead of the corridor. Curver fired. Though he had tried the pistols before,

Inough no seat true the passion between in practice, he was amazed at the powerful charge of infra-heat that blasted into the satty, charring half his hody. Obviously, excitement reigned in Pheyry. Black figures duried down the corridors, not even noticing them. Those that did, and turned, met the harsh blast of beat from Carver's ready gun.

Library of these stairs!" shrilled Queen Elsha. At the head, Carver fit the sanister burn of tetekinetic forces piest his ear. He rayed a demonite black face, but another appeared, alming straight at him with his tubular weapon. A soft bies freen Helmer's gun, at his side, charred the black hand that threatened Carver. Tyscal's gun spoke from the rear, as a safer charged up from that direction.

of from that direction.

They bad gained the roof, then.
Three setyrs, peering in the sky, bad as chance as five beam-guns beiched at once. Queen Ethia's ship lay close by and they run for it.

L OOKING up, Carver wondered bow they would get free of the elemental furies being burded about there. A bundred flat-decked ships of Sherraine, widely separated, were possing down a hell of withering rays whose touch turned metal to water. Atomicbombs, plummeted down, blasting buildings and filling the crooked streets with fagged debris.

Up from the city, in turn, stabbed equally powerful beat-beams and the humming, invisible telekinetic forces, The surprise of the attack was over-Ship after ship blossomed into flame, or

ripped apart and dropped like a stone-It was victous aerial worfare such as Carver had never seen on Earth "Hurryl" screeched Queen Elshs. She graphed Helene's hand and pulled her to the deck. Carver lifted Val Marmay hodily as the northy scientist store-

Tyson was already at the controls. As the ship rose, three satyrs rushed from below, firing. A section of the deck-rail next to Carver splintered and whirled off. Carver, aiming deliberately, picked off two. The third crumpled

Tyson velled a warning to hang on and the ship rocketed up in a wide, wearing age. Gura roared below them. How many times a heat-hearn or telekinetic blost slashed near them they did not know. But at last they were high out of range. Below, the few remaining Shorraine ships kept up their grim attack. Black, round abine now arose from another part of the city, to give chase, but Tyson grinned in derision as be set a straight, swift course for Shorraine. They had enough of a head start

to be safe. "Saved!" breathed Helene. Phoryx, city of demons, dwindled rapidly. They had all crowded together behind the

wind-breaker at the prow-"I suess that's the word," agreed Carver, looking at Queen Elsha. "And

I think we have you to thank, Elsha!" The Oncen of Mu seemed suddenly drained of strength. She leaned weakly against the bulwark, her face pale and wan behind its rich olive tint. Carver out an arm around her shouldees, steadying her. He could feel her

"I have in part-atoned!" she said. Her dark, fidded even reflected a calm lov. "I fooled Sha-tahn. Back there in his chamber, when be offered me another chance, I took it. But only as a chance to save you. Barry, and Val Marmax111 Carver knew now what her final

termble at the touch

clance to him had said-"Trust me!" He felt shame inside of him, for having doubted her. The Oncen of Mu went on. "Back

in Shorraine, I went immediately to the Five, told them the story. They thought it another trick at first, but I convinced them. A fleet of a hundred armed shios. Shorraine's standing force, was sent to the attack. But I went first, ahead of them. "My plan worked. I landed and

as the sum in Oncen Elsha's hand spoke. gave Sha-talm the 'warning' that Shorraine was attacking, still playing the part of his ally. He did not think to use un satral-prober, in the excitatorne Thus, as they set about hurriedly to perpare defenses against the surprise attack, they did not watch me. When the battle started. I made my way to your prison-the rest you know."

> CHE drew her breath in a half sob betraving the strain the had been under when any false move would have meant failure and death "Spiciele sound!" mormored Carver. thisking of the brave room point to cor-

tain doom. He looked searchingly at the queen, "And you, Eisho-regardless of what you did before, you risked voor life to save ours-"

"It wasn't just your lives!" she cried. a little aperily, "I was thinking of Earth. With Val Marmax in their hands, the demon-people had the secret of Soot-penetration for themselves. They could invade Earth, with Shorraine helpless to interfere. That was the issue at stake, burning in my mind

had been noble sincere self-sacrificing. -" Then suddenly her voice changed. "Oh, Barry, I did it just for you-toso that he could forcet what she had save you!" She looked up into his face, standing

"Kiss me. Barry!" she demonded. Carver stared, startled, Was she still

playing a store, serving her own desires? Hoping to win him by what she had done? Confused, he planted at Helene and was more perplexed to see her podding slowly, almost commandingly. He had not seen the glances be-

tween the women, nor would be, a man, have understood the signal exchanged. He heat to king the Owner of Mu-Her lips touched his burningly. For a moment they stood together, the man

and woman of ages twelve thousand years apart. Then she broke away. "Our fest kiss." she murmured, "and She moved back. Carver did not realize what she was up to till she stood at the edge of the deck where the

rolling was torn out. Her raven hair blowing in the head wind, she looked at them all smiling quietly. Then she Carver sprang forward with a boarse cry, but it was too late. Her white-

robed body tumbled from the ship. turning over and over as it plunged to the ground, three thousand feet below. Carver turned away, sickened, A gasts of horror had come from the others. "It was the only thing she could do," said Val Marmax then, "Death

with honor. Her sentence later, for her original crime of hetraval, would have been death anyway." Touga granted. "She had nerve, if nothing else."

Helene was weening softly. ry," she whispered, "let's think kindly of her. She lowerl-and lost!" Corner modeled sloudy. His memory of her would be kind. She seemed nurle fied by her last act. For one bour she

been for twelve thousand years. They were all silent for the rest of the journey, thinking of the Oucen of ancient The slim graceful spires of Shorraine

brought a surge of foy to Carver's pulses after the oppressive solourn in dark, evil Phoryx. A hum of activity rose from the great city, as it prepared for the coming struggle with its age-old enemy. On factory roof-tone, men swarmed about rows of ships, outfitting them for wartime pursuits. Alone the city wall's broad hip giant anti-aircraft

guns were being wheeled into position, against the event of attack. Carver went directly to the Five, with his party. They were in a large room outlitted with bundreds of flashing selevision screens, directing the citywide perparations. But they came forward with easer smiles of greeting

"You have succeeded in bringing back Val Marmax," said the spokesman. "Barry Carver, you have done Shorraine-and Earth-a great service!" "But only with the help of Ouern Elsho." Carver went on to give the dotails.

beieffe. THE Atlantides bowed their beads si-

lently for a moment, at news of her death, "It is not for us to judge her." murmured one. He looked up, "But now, other problems confront us." "Yes," said Curver grimly. "If the demon-people have the right Spot-pere-

tration data, they'll apply it as quickly as they can. Earth is messeed. How soon can we attack in full force?" "Our facilities have been reared to

full capacity," responded the Atlantide. "Turning out guns and mounting them on all ships available. All of Shorrains works on the project, with a will Onethird of our forces will be ready tomor-

PRISON OF TIME

row, one-third the next, and the next." "Then we'll attack tomorrow." declared Carver. He hesitated, "Who will lend Shorraine's forces?"

"You, of course," said the Atlantide matter-of-factly. "We had already decided that, if you returned, after we had

looked over your plans for a first to enter the Earth warfare. You and Tyson are most versed in aerial battle. Tyson will be your second-in-command. Do

you accept?" The two young men looked at each other. "We do!" Tyson tried to say casually, but it was close to a shout.

Corver turned to Val Marmax. "In the meantime, you will work out the Spot-negetrator units and have the factories turn them out, as we originally planned." Despite the coming war within Shorraine, Carver still thought of the outside war, and the Ian army he hoped yet to stop. The Earth war was

larger in scope, more slow. The war in Shorraine promised to be swift, and deadly "I'll have some of the units ready in a few days, and will equip all the ships within two weeks," promised Val Mar-

max. "One other thing," said Carver, "Have a ship sent out to pick up Overn Elsho's body. She ought to be given a decent hurial."

The Atlantide nodded. "It will be done. Her people of Mu will give her burial in their ancient coremonial man-

The next morning, as dawn cast a crimeco, alors over the dark lands of Shorr, the first fleet of Shorraine hummed into the sky, hound on its grim

The flasship rode at the van of a coo ships, in rows of ten. Carver looked back at the mighty armada. Concentrated destruction was at his command. more than any other leader in history had ever had. He thrilled at the

mission.

thought. But the enemy was strong. How strong he had yet to find out, But how oweer to think of the men in back of him-men from all times and lands united in this venture. There were Eryptians who had fought wild harbarians before Europe was civilized: Indians and Chinese whose dynastics

had once been supreme: Persiana who had quailed before Alexander's conmest: Romans who had stood in their solid phalanyes: knights who had once jousted and shivered lances; merceparies who had marched in Nanoleon's Grande Armee. All alive here, by the . queer timelessness of Shorr, to fight together now with the superweapons of

Atlantean science. Did be have a unified fighting force. so important in warfare? Carver was sure he had. He had addressed them all before the departure. They had cheered lastily. Regardless of origins and times, the demon-people were a common enemy. Sutan, and all his dark

attral forces, had placed marking from the beginning. And now, when they might soon rayage out into the world, they must be stopped. Carver knew this burning thought was in every man's breast. They would fight as they had never fought before.

"FROM what I've heard," said Tyson, also sweeping his eyes over the fleet enthusiastically. "this war to the finish, with Phoryx, has been building up for all the twelve thousand years of Shorraine's existence. It isn't needed on event like the Spect-reportation to light

the spark. Burry this is bistory!" Carver's lips tightened as the dark outline of Phoryx climbed the borison. The enemy did not send out a fleet,

though they must know of the attack. through scouts. Strategy, perhansletting the city's defenses protect itself and saving the fleet for later, when

shorraine's forces were weakened. All

right, thought Carver, it would work both ways. The sooner the city was destroyed, the better. Two miles in the air, just as the edge

Two miles in the air, just as the edge of the sprawling mass, Carver barried into his mercophone. Radio carried his commands to all the ships. The fleet spread out in a long, curving formation, ten deep, and dived for the city. The anti-alercard guns below suddenly sweke. Flame belched into the sky, One shuy's prov sagged and then the metal burned like paper. Another shall posit in half is se the ravening teckinetic technical.

force blew a hole through it.
The bottle was on!
Carver's fleet, at his orders, blusted

out with their heat-beams at the bottom of a sweeping trajectory, rising over the narrest line of towers. The hellish force of atomic-energy traject three of them. Molten metal dripped to the streets. The last line of ships, bombers, dropped their deadly loads. With terrific roars that scened to shale the whole universe, the atomic-bombs converted their targets to twisted, smoking reins. Thank observable universe.

Yet at the top of their swooping climb, when the fleet reorganized list formation, Carver kooked below and saw that the damage was tiny compared to the city's extent. And he had less tist ships. It would be a long, contly

job. The feet of Shormine dived, again and again. Hours passed while hobcastic energies were buried between the belligerents. At times, fired of just watching, Carres took the place of one of his ship's gumers. He took satisfaction in running a heat beam down the face of a building and spiking it open like a ped. Now and then he saw tiny says figures consing about mady, says figures consing about mady, while permitted the same and the same of the holding has deposited.

work wedge had been added to the darksome as decity, but how much remained to be done! And be had lest you ships, edge "They work surrender, of course," and raked Tyon said. "We'll just have to batter the whole city down—if we last!" Cruse "Course and the said of the

the whole city down—if we last!"
"Yes, I'm wondering myself," Carver
mattered. "But it's all we can do. This
is a war of extermination!"

On the second and third days, Barry Curver led out successively greater florts. He smashed at Phoryx from five florent points, working inward. The black camer of their annihilation crept

black canor of their annihilation crept steadily forward.

"They haven't sent one ship up against us," Carver mused thoughtfully at the end of the third day. "Thus means they are confident of Soot-sentmeans they are confident of Soot-sent-

h tration and don't care about the city.
They are saving their ships for—Earthle I don't think we can destroy the city fast enough to stop them. We've got to get control of their Spot!"
"And that's just where they'll have their main feeces concentrated," Tyson

returned dubicusly.

"We'll have to try," Carver ground out.

I. IE sought out Val Marmax. The

In scientist, with a staff of helpers, was buslly adjusting a battery of robot machinery.

"How soon will you have the first units ready?" Carver demanded.

"In two days."

"No sooner?" grunted Carver. "We not min control of their Store on h." a

must gain control of their Spot, see &c., sides. When our first thips go out, we can send them to the Earth-side of their Spot.—Spot.—bottle them up. In the mean-time, we'll try blacking them on this side."

The attack the next day, concru-

obtrated at Phoryz's city-gates, ran into full resistance from the enemy, true to I a Tyson's prediction. Anti-aircraft guns and sent up a terrific harrase that deaned

When night fell, Carver called a hult. He looked below. A charmed

PRISON OF TIME

Shorraine's ships like falling leaves. And for the first time, the demon-people's black, circular ships rose to battle. Obviously, the enemy was determined to hold its Spot. Just as determinedly. Curvey horted his forces at

mined to hold its Spot. Just as determinedly, Carver hurled his forces at them relendessly, heping to grassh through. He didn't. And late in the day, when the serial bottle had been carried high, he saw a

line of ships sail low and straight for the Spot.

"They're going through!" gasped Tyson,

Tyson.

The first ship had faded suddenly

entering the area of the Spot enclosed by the great gates. It became a dim shedow and then winked out entirely, as though it had been swallowed up in thin air. One after another, the rest fol-

lowed. Carver counted more than a brandred.

Tyson leoked around soherly. "They beat us to it, Barry. They had a day's start on Val Marsan, since he had to start all over devising the unit, on pa-

per, when he got back to Shorraine. They have the same robot machinery. They beat us to it!"

Carver groaned. "And tomorrow—"

When they sent out their first test
ship through the Scot, the next day, it

came back hurriedly, with half its prow shattered. The enemy waited out there. "They have as bottled up!" muttered Typon. "We can send out only one

ship at a time. Suicide!"
"The battle has to be finished here
in Short!" Val Marmax stated solemnly. He went on crookingly. "And
they will outlast us. They are stronger

emnly. He went on croakingly. "And they will outlist us. They are stronger remerically. They can draw recreats from outlying settlements of theirs. We of Shorraine—are limited!" Gloom settled over them at this in-

escapable fact. Carver's mind strove for a way out. It was the old axiom of warfare, in a dragged out straggle-

manpower was the deciding factor.
Lacking that, whet could Shorraine do
to wing the tide? They had already
too two bound ships and twenty
thousand neen. In another week, their
drained manpower would leave Shorraine easy prey to attack. The shadow
of doom lay over them like a bilghit.
Curver turned to Tyson and suddenly
asked a quere question. "Have you

still got your old flying tops?"
"Yes," Tyson said, surprised. "I put
them away carefully when I came to
Shorraine, Sentimental, I guess, Why?"

"You're going to wear them,"
stated Carver, eyes narrowed.
"And I am going to wear mine. To-

might a ship is going to secretly land
us outside Phoryx's gates. Tomorrow
morning, we'll enter Phoryx—as wandeters from Earth!"
"I see!" gasped Tyson, at the daring

plan. "But what can we do--"
"What any other spy or sabstage agent does in the enemy's came," said

Carver grimly, "Work for their downfall," He whirled on Val Marmax, "That appearatus with the speaking

tubes, that we saw—do you think it might control all the enslaved Earthpeople in Phoryx?"

"R likely does!" cried the scientist, a flash of understanding in his eyes. "It would correspond to a teleputhic central switchboard. There are shout 20,000 human south in Pheys, under that deminster. If they were freach

ere "Barry!" lettre threw her arms
solaround Carver's neck, "You can't go
and hack there. I can't let you. I can't!"
ger She clung to him tightly.

She clung to him tightly.

Carver spoke gently. "This may hurt, dear, but suppose your father were one of them. He was lost in the deaver.

too. I have a chance to free these people and help Shorraine at the same time, don't you see?"

The eirl fell back, her face wild.

Then the printed herself and model Carver could peer in at an angle. A "Go, Barry !" she breathed.

Shivering in the cold night breeze, Carver and Tyson watched as a crimson dawn splashed over the wild terrain of

Shorr, They crouched beneath Phoryx's sreat sates, where they had been landed an hour previously by a silent, dark ship. In their Earthly uniforms of airmen, they looked the part of men who had just wandered into the Spot from the Sahara Desert. Their faces had been disguised, by skilled touches of

"We'll have to wait at least two bours," whispered Carver, "We're supposed to have seen Phoryx as a mirage, and mirages don't appear too

early in the morning." Tyson nodded, his teeth chattering, though not from fright. Both of them were calm. It was a desperate earne they were playing, but it offered one chance of bursting the prison bors of doom around themselves and all Shor-

They heard the busy hum of the city. this evil possestal city which would soon he master of two worlds if fate so willed. Along the curve of the wall, thry could see pacing sentries, black satyrs whose hooves clattered loudly on stone. At times they saw sourrying human figures, carrying burdens, doing the

bidding of their cruel masters. Carver due his nails into his own palm. Such would be the lot of all burnars if the demon-prople won. High overhead a black ship circled. statching for attack from Shorraine. It for the attack at about that rime. The subsequent excitement in Phorey would increase the two men's chances of ac-

But before Shorraine's forces arrived, the huge gates suddenly swung wide, line of ships darted from the large building which was Shn-tahn's central headquarters. Curver gasned. Standing stiffy at the deck of the first ship was that familiar figure, with the lick of black hair over his forehead, and the small mustache. Beside him stood the short, sount vellow man, cheek scarred. lins cruel. Hitler and Genebis Kahn. two of history's most ruthless conquerers, and under the domination of a vet more exil nature-Shadahal

THE ship winked out before their eves, as it entered the area of the Spot. It continued as a chostly shadow. on into the Earth dimension. One by one, the others followed "Another hundred!" hissed Tyson "And evidently these are being sent out

into the world already. Shartabn is confident of victory here in Shore!" "Let's go!" said Carver. They straightened up, bugged the wall till they came to the Spot area, and then boldly walked through it, into Phoryx. They simulated attitudes of

ing their heads around. A satter came running up. "You are from the Sahara Desert?" he usked in perfect English. Carver and Tyson needed word-

lessly, as though too astounded to speak. They tried to show as much of stack fear as they could nutting themselves in the place of men who saw all this for the first time.

"You are in Phoryx, city of Shorr, which is another world," explained the sntyr briefly, "You cannot escape. You will not be hormed if you do no see you

The two Earthmen stepped forward. complishing something without being as though too mentally numbed to remonstrate. The satyr walked at their side, watchfully, with a hand on the butt of his gun. It was evidently the

PRISON OF TIME

ers to Phoryx, terse and abrunt, without giving them time to think or object. Carver was grimly satisfied to note that they were heading for the great, towcred building just opposite the gate, which he know from the last time to be Sha-tahn's headquarters.

The sator motioned toward a door

and herded them down the diradit corridors. What were they being led to?

Carrer tried to orient himself in the building. Vaguely, he knew that the telepathy-control room was off the

ground level and toward the rear Somehow or other they must per them-Finally they were taken into a large room. Against one wall stood a large apparatus of indefinable purpose. Two

other savyrs looked up, snoke a few wrote with their captor, and then turned to the machine. Moving levers brought it to humming life. The first

satur motioned to a flat wide bench that lay under a frosty slobe.

"One of you will lie down there." he commanded "What do you mean to do?" asked Corner in folse terror plessing his past

At the same time he did ment to know what the machine was for. "What is this all about? What-" He stopped,

The natur legend evilly, obviously taking their hewildered discomfiture as real, and enjoying it.

"You will be in Phorys a long time." he promised, licking his lips as though he relished telling this. "But as slaves! You carnot escape it. Be warned that this run I have -be drew it-"can blast you to instant death, if area regist. Under the machine an notest force will negativote move beals and ladge in the cortex center of will concension is After that now will

treist. Now you, the his one, ret on

usual method of introducing newcomthat brach. Or if you choose to die. attack me. We are not so much in need of slaves anymore as soon we will have all Earth to pick from, Well?" Carver planced at Tyson. Once un-

der the apparatus, they were lost. They would be mindless, bereft of will, flesh and blood robots. But on the other band, they were menaced by a gan whose telekinetic forces they knew

only too well as a blasting death. Carver tensed. It was do or die. The sator brought up his gun sharply. CUDDENTY a lead helt channel in

the corridor, and echoed from several other directions. Carver knew it must be the general alarm, that Shorraine's forces were attacking. At the sound of the hell, the sature had involuntarily looked around. And at that

moment, the two Earthmen leaped. Carver caught the satur with the sun in a flying tackle that knocked him off his feet and cent his meanon clatterine against the wall. The Satur atmosfed wildly, kicking with his hard hooves and curling his prehensile tail arround time as possible. He grasped the crea-

ture's neck and benged his bend against the floor with all the force of his earthly muscles. The patyr went limp, his skull Carver sprang m. whirling. Typon.

cursing was bottering away with his fists at one satyr. The other was leaning for the door. Carver grabbed up the weapon in the corner and stabbed at the side button. The sun save a little kick. The satyr, with a choked scream. went down. The telekinetic charge had torn his throat our Torse

knocked his adversary with a final up-Carver stepped to the door and ober all commands, by word or tellooked cautiously down the hall. Almathy, without the slightest power to threesh sayeral sature person in various cross passages, none seemed to notice

fallen. Carver jerked his gun from its what had accurred in the man-"The attack came just in time, for us," panted Tyson.

"Now's our chance, in all this bubbub " said Currar resolds. "If we can and that telepathy room. Let's ro. We can walk along the halfs as though we

mere breeze clause of theirs on come errand." He stack the sun in his belt It seemed hours that they wandered through the huge building, though they knew it was only minutes. Minutes that were tense, netve-wracking. At any moment they might be challenged.

approchanded. But lackily because of the bustle of the attack, the satyrs who passed barely eigned at them. The two Earthmen shuffled alone with heads half broad. like the mind-shape of Pho-They ascended steps and worked

their way upward. Somewhere up here must be their destination. Tyson grunted surdenly. "This looks familiar. Ves. this is the hall leading to Shotabes's chamber! The next cross corridor must lead to where we were

traccord last time-" "Von'en sight!" Corner braded down the half fraction the year notes

Soon they came within sight of the central room with its many branching corridors. From here, evidently, groups of human slaves were assigned to various duties, guided by telepathic commands. Standing against the wall. Carver could see five satyrs in the room. giving their commands into the row of

"Five-and all armed!" said Carper all the city! Attuned in some intricate grimly, movine forward with his gun in way to the will-less minds of Phoryx's

"Wait!" blood Trees. "Satyr coming down the hall." He hurried up, glancing at them, but

without suspicion. As he went by, Carver deliberately aimed his weapon. The homeoing charge cracked the side of his head onen. Almost before the body bad

holster and handed it to Tyson. Then, tight-lipped, they crept to the control poom.

One of the seture turning looked them full in the face as they reached the doorney. He shouted hoursely nulling out his own. He fell his chest

torn as Carwe's oun sout viciously. The other four whirled, icrking at their weapons. Two more went down, as the Earthmen fired together, Carver ducked, as a gun swung at him, but felt his left arm to lime as the charge ripped into his shoulder. His return shot was more accurate, and the one remaining satyr died with a strangled gaso as Tv-

COREY had done it! Cores told I himself that with a surge of triumph. Now if only the rest would work out as he hoped, and wanted. His line twisted with the pain of his shottered shoulder, but that could wait. "Onick!" he barked to Twon. "Close the doors. Lock them if you can. Then

son fired.

keen watch. Keep them out for the next five mirrates, come because or hell white I

He stepped before the wall apparaing even. Under each horn was a series of study, some pressed down. That most be the "on" position. Rapidly be went down the row, showing all the stude down. A deep, rising hum came from behind the panel. Telepathic forces of some sort, broadcast through

human slaves! Wild conjecture? No. he result be right... he most!

Carver stepped back, drawing a breath. Then he velled out: "Slaves, attention! You are free-

Arise naninst your hated masters. Wherever you are whatever you are doing prise-and kill your mosters!" Carver stopped. "Tom," he said fervently, in lower tomes, "if you ever pesyed before, pray now, that this works!" Carver repeated the message. Was his voice, translated to telepathic im-

his voice, translated to telepathic impulses by the mechine, impiling in every human slave-brain in Photyx? Were they straightened up, released from a previous command—free and seething with vengenance? Some of the people must have been here thousands of years. How strong must be their hatted arminst here across the savival.

Carver forced himself to think more rationally. How much could they do before the satyrs finally destroyed them all? If just enough pandemorium and chaos could be created to let the attacking forces of Shorraine get a foothold, a vantage—

Carver harked out again, stentorian-

"Staves of Phoryx! Arise and kill your masters. Take all weapons you can. Those of you near and-sircraft gurs, take them over. Do not shoot the size of Shorton. Those of you near the Spot area converge on the defenses at that point. Take over all gurs and positions you can. Short down the shies of Phorer.

Fight, slaves, fight—for freedom. And for Earth!"
"Here they come!" cried Tyson. The doors which he had closed and locked by a bolt mechanism rang with repeated

blows. Blasts of telekinetic force ripped out graping beles. Carrorer aimed his gun at the telepathy-machine's panel and sweet its charge down the line, blasting out the studs one by one. His last command to the mind-shaves would be the last they would hear for a time to come. Back of the neart the throbbine covered

as connections broke

Then Carver turned, waiting calmly for the demon-people to blast their way

in. There was no chance of escape this return. He only wished be could know, is before be weat, whether success had readed his efforts.

Saddenly a wall screen spangled into a television view. Sha-tahn's dark, evil of face peered out at the two besieged re Earthmen. He leverd statincially, as

Earthmen. He leared saturically, as Earth mythology represented his astral alter ego.

"As I thought," he spoke, peccing sharply. "Barry Carver, despite the dissuits. You will die for what you

bave done—borribly. Not by gut, no."

Bave done—borribly. Not by gut, no."

Bave done—borribly. Not by gut, no."

Bave done—borribly. Not by gut, no.

Bave done borribly. Not b

THE noises outside the door canaed.

And down from the celling durted
a hlack shadow. Carve have there
fit was no use running. The shadow enwelcoped his head, probed with its poychic forces, and a faint scream soundand within Carvet's hroin. It kept on
a randilly. Carve knew it would drive
a randilly. Carve knew it would drive

him mad, but before them he would—

x. He gasped. He tried to raise his gun
d to his own temple, but some force prevented him. He could not will his own
tend him. He could not will his own
the death!

e death! ! "You see?" snarled Sha-tahn. "You! ! will suffer, and..."

At that moment, shouts counded. Strange wild shouts that seemed to come from all directions. Human shouts! Sha-tahn's face vanished from the screen, with a startled look upon it. At the same time, the astral tormenter over Carver's head disappeared.

over Carver's head disappeared.

Tyson had sprung to the door, looking out of a gaping rent.

"The slaves!" he shouted, joyfully.

"They'e out in the hall. Enhine the

satyrs. Barry, it worked..."

ium and fever were gone. How the up-Carver leaped for the door, opened rising Earth slaves, obeying his telit. The satyrs were lacked surious the natic commends to the letter, had de-

it. The satyrs were hacked against the wall, shooting it out with a party of men swarming down the corridor. It was over in a moment and with bloodcurdling screams of triumph the Earth-

people surged toward Sha-tahn's room.
"Let's get in on that!" cried Curver.
He was only partially aware of the
blood dripping down his sievey, from
his torn shoulder. He and Tyson were
with the party when it awarmed into
Sha-tahn's presence. A withering bar-

Shi-talin's presence. A withering barrage of gua-fire met them. But the rest crowded forward eagerly, modify, screaming revenge. Carver realized their very few of them were some. He had loosed a pack of demented monsters among the demon-poople, who had mode them so. Somehow: it was

divine justice, Sha-taha's party retreated. Then piercing cries from the back of them and they were trapped between twofires. In desperation, they made a break for it, past Carvet's party. Some-

how, Sha-tahn was there across sights. He pressed, and watched the ruler of Phoryx full, a corpse. Carver was in a dust. His shoulder mined associationly. Was it possible

position agentismippy. Was it prosperite who for thousands of years had worked his way into Earth history as—Satian? Was this all a mod dream? He was so onfused, and so weak. It couldn't be true. It was all a terrible, impossible dream, and then a tidal wave of darkness swept him off his feet.

BARRY CARVER stood at the prow of the steek ship as it rose generfully over Shortsine. He had one arm around Helene. The other was in a dince. His chealer wound had nearly

de versited away guns, shot down the demon people's ships. Shorraim's series. In feeters had been able to land within t. the city and take over more guns. Before the end of that day, becausey was insolated in various sections, besiged. The local of their great fleet was destroyed. In three more days, the city had been reactically leveled. Those of the sattire.

moralized Phoryx's fashting forces.

They had stormed every position.

In three more days, the city had been practically leveled. Those of the satyrs still alive had raced to the dark lands. Their power was broken.

CARVER'S ship, piloted by Tom

Tyson, maneuvered into the Spot.
At its nose, a magnetic machine
theumned powerfully. They felt a
slight wrench, no more. The blubb
light around them gradually fixed into
a soft yellow glare. It brightened to
tropical harshness as the sends of the

Sahara spread to all directions. Earth! Carver took a deep, satisfied breath. He looked back. One after one, ships followed, The line hegan to

stretch out like a string of beads, over the bot desert. Five thousands ships were his to command. Armed ships, superior to any fighting force of Earlie Carver thought of the Isan army and

raine—City of the Mirage! It had been the scene of incredible adventure, funtastic from start to finish. He would never forget a minute of it. Nor would time mist his memory of the enigmatic, lovely creature who, unwittingly, had assured the destruction of Phoryx.

The ship sailed on, into the wide all skies of Earth. On its prow was ir- the lescond: "Eisha—Ousen of Mu."

They had told him later of the full destruction of Phonyx, after his delir-

INSIGHT

MANLY WADE WELLMAN

NEVER claimed to be a gentus

not even when I was a know-it-all stephenore. Of course, I got a Phi Beta Kappa key, but so does ten per cent of all Columbia graduates. Now I bud finished school. I know that key was

What would you do if you had a pair of contact eyo-lesses that x-rayed cloth and wood? Perhops, like Som Storrett, you'd flad yourself in a kidnoy-gang's kill-trap-with the finger of death pointing at your sweetkeart!



me feel all mosalighty and spiritual instead of two hundred pounds and redhended and blocky-jawed. With her in my mind, I could forget that I owed a

year's twiften, and that Coach Leat Little had told mis of three ansurams straight that I was the most exasperating variety tackle bed ever Initial to teach foodball rediments, and that I'd have to wear a cap and gown in townstron' we to wear a cap and gown in townstron' and that I'd have to wear a cap and gown in townstron' and Antiporite's data—J. Bartone Canada—J. Bartone Canada—J. Bartone Canada—Lad prosmitted to shift me altive if I delin't leave his daughter abone. I almost forgot my discretion, the one thing I had to show several control of the con

D it by on the decising table in my little come in Juda Jay Hall, Or, rather, they lay, became there were two of them. Two little bits of chear glass, about the shape and size of acora caps. Not perfect, I knew, but a step in a new direction.

The lides—I'd better explain in the beginning—cause to me in high school. I saw how glass could medify and mix light; a praise nerbel in pin the spec-

BUT I couldn't forget that, because

beginning—came to me in high relool. It have been gained and the media in the pretrains, a time focus off it on plant to the spectrum, a time focus off it on plant to the pretrains, a time focus off it on plant to the pretrains of the preparation of the pretrains of the present the presentation of the pretrains of the preduction of the pretrains and cumber—a minely glass modifier, that would abserb instead of pixing of the pray, would be a benin instead of a reflector, would, in sheet; and there are a sufficient of the presentation of the pray would be a benin instead of a reflector, would, in sheet; and there are the presentant of the pray would be a presentant of a presentant of the presentant of the presentant of the presentant of the preparation of the presentant of the preparation of t

ries.

And now, after four years at the uniwestity. I had this to show, this pale of crystal shells that came to the problem's fringe but no closer.

less's fringe but no closer,

I picked up one. I had made it like those little spectacle-things that fit right over the eyeball, Though almost as

thin as paper, it contained five distinct, hayers. Between two of these was a tiny vacuum chamber, with microscopic Xray devices—catabod, nacide and anticathode—but mode, I say, to absorbed and and not to produce. No induction coil, but certain metals that, fused properly in the glass, supplied power energia, -never mind which metals, that's my secret. ... If direct the shell joss no con-

cible of boric acid solution, then speriod spart the lids of my right eye and let it snick into place there. Colorless, saug, it would be almost completely unnotice able. Then I dipped the other shell and fitted it to my left eye. This was my first my of the complete

lenses and, though my early experiments bad perpared me prefit well, I gloomed all over again. When I becked at my flagers, they were just flagers healthy, measty, freeklid—not a studory tind with brane showing theough, the as in a real X-ray. The device was only half effective, couldn't use through living organic tissue, only thin layers of maximum encounterais.

Gasing at a cardinarid box on the desero, i felt is slittle better. Through the lid I could make out my shirt study, my cuff links, and the medal. I wen for achieved the beginning of success, maybe enough to build en for perfection. Meanwhile, 1'd better huntle own to Rivenide Drive. This was the afternoon that Marjoric had promined to allow the country of the cou

a girl's reformatory, but in the last meath we'd been able to meet twice, through the belp of Miss Wheatland, a new substitute instructor. She helped Marjorie to slip saws, I thanked heaven that one teacher, at least, had a heart. So I left John Jay, still weering my leases; I planned to namee the builts be counting the color in their

recrues and so on

INSIGHT

Marjoric usuald be waiting, I tried to figure some profit out of the galayte. My hear chance would be a sort of mind-eading stunt in a theater, and To never due ruy—The not the meantal type so far as looks go, and I'm prome to gat singe fright, supersy. All wrapped up in thoughts like that, I took no notice of anybody or anything. I was almost run over by cars, buses, people. At last I reached the Tomb, and Marjoric

Heading for Grant's Tomb, where

in thoughts mis man, I toke no nonce of anythody or anything. I was almost run over by cars, buses, people. At last I reached the Tomh, and Marjoric came around the corner of it toward me.

Of course, I always look at Marjorie. So I looked, hard, and I was within an inche of foreign.

inch of fainting.

There she stood smilling, my dream girl, the one I yearned to marry, without a sitch on! Every curve of her, every pink inch, from her fluffy blonds to the minimized toos use revealed to me! And she was saying, calmy and cheerfully "Helia, Sam, you're on time to the dot. Why, what's the material Legisland of the property of the p

A BOUT that time, my poor simple one-track hrain had the answer. The eye-pleces, of course, they'd X-rayed Marjorie's clothes. I hadn't thought of that, simply because I never think of more than-one thing at a time. Embarrassed? The word's not one-tenth strong enough. I manused to

manibe: "I was thinking, dart, how beautiful you are.
"How do think my new dreas?"
"How do the my new dreas?"
"I wan do the my new dreas?"
I general it was obey—it was only this—it present it was obey—it was only this—it printed like a peal of bells. "You don't be trained by the my do the my do the sandward to the my do the my do the sandward to the my do the my do the trained by the my do the my do the like it my factor my dreas a red that I like the my factor was or did that I wanted the my factor was not my do the my do the like it my factor shows or did that I wanted

desperately to get those infernal things

get of my eyes, but I didn't dare, not

with Marjorie tooking on. She'd sunt to know what they were, and I'd have to tell her. Then—gee, maybe she'd never speak to me again. That was too awful to imagine.

But she didn't know, and she was againg: "Miss Wheatland helped me slip away, as usual. I'm expecting her to come along any memert—ob, bere

to come stong any moment—on, bereshe is now. You remember Miss Wheatkind, of course?*

I'd met Marjorie's teacher friend twice already. "How do you do?" I began to say, turning to greet ber, and

began to say, turning to greet ber, and gazing into that stem, spectacled face that so helical a beart made apparently of pure gold.

And then I saw the rest of Miss Wheathand, without bepellt of the prim dress she useally wore, and I was worse

shocked still.

For that maiden-lady face I knew was set upon the body of a man-braway shoulders, beiny cless, a blotch of tattoo on one corded arm—and on the left side, under the muscle-ridged armpit, lurked something to soure even a football lummor with half-blaked set.

erific ambitions.

X
X
Y
SHE—OR HE—was carrying a bage
er automatic pistel, blue and shiny and
to bethal looking. I hadn't espected to
ediamone anybine like that with

the diagnose anything like that with my be X-ray!

"How do you do, Mr. Surrett," said the voice that I recognized as Miss: Wheatland's. "I hope that I find you will young man. I'm going to take you

ht- and Marjorie to tra."

she "To tra?" I repeated foolishly, as
m't though I'd never dreamed of such a

If thing, I was trying to add everything

though I'd never dreamed of such a thing. I was trying to add everything up. Miss Whentland was in reality a man, disquised as a woman teacher that meant mystery. He was carrying a gun, a whacking big one—that meant outlawny, violence, crime. He was deeply inscreted in Mariotic pretending to

be her best friend—golly, that meant—went is desperate danger to the girl I loved.... elevate

"Yes, to tea," replied the casual voice of the Wheatland impersonator. "A friend of mine has given me the key to ber apartment, quide near here on Riverside Drive. Come along, it's a levely place—so restful—" "Let's be going," chimed in Marjorie.

"Let's be going," chimed in Marjorie, and burrowed her little hand in under my elbow.

"Wait a moment," I began to say, then changed my mlad, "All right, ladig. Let's go and have ten, by all means."

Because I realized that I couldn't back out. This Wheatland creature was after Marjorie for something. My Xray lenses could penetrate his disguise, but not his plan. I had to tag along, protect Marjorie, foil the whole thing. How?

We walked for several blocks, and I studied disparately every step of the way. I only half noticed that the grass was green or the sky blue, or that Marion's was chottering happily, or that the Whenland fisker was pretending to be personshy philosophical, or that all the crowds of people along the Device loader to my learse like a muddit parade. I was full of the knowledge that I had to do somethism about this mess, and do it and on it.

mighty quick.
THERE was a cop on one corner—

a fine big Hrishmas, with a faint tings of bite to the cloudy fine that was his uniform, and a badge and nightsitive quite plain to a badge and nightsitive quite plain to a foot, What would yelled to him, but a foot, What would to be a foot of the control of the conold mish was really a guanam, and that I have because I could see through bis clubes? That would settle everything, but then Marjorie would know about the X-ray glasses. And goodbye romance. west in and then up in an actornitie delevator. Marjorin, standing close to me and all unaware that she looked to me is the a very underned Greek statue, said: "Do you feel all right, Sam? Your eyes look glassy; I smiled and shook my barming head, but I guess my eyes would have looked glassy even without those leases. No, they couldn't, because without the lenses I'dl never how models and the said of the country of the cou

story teller. We rede up to the top floor, and the Wheatland bandle conducted us down a hall and litto a swank apartment. The foyer alone was as big as my room at John Jay. Marjorie hounced on through sed such down on a divan in

the parlor, but I passed on the inner threshold. For, at the far end of that deawing room, in a shadowy little mook, crouthed a squat, hurly man. He was the greatest shock I'd had

He was nude to my X-ray eyes, of course, but that was no longer a novcity. He held a gun ready in his hand, but I had already spied and dared the gun under the armpti of that Wheatland boodfurn. It was his face that made me silver and turn cold. I know that face, as anyone mest know it who ever niked up a _abote noner. Baild

head, heavy block brows, abort upper lip, lantern jaw—it was Dillard Harpe. Right, the one and only Dillard Harpe, for whom J. Edgar Hoover and bis G-men were ransacking the country; Dillard Harpe, joilbeaker, killer, kidrapper—there I said it! The whole thing made sense on the instant, Harpe and this Whestland yegg were out to

"Why-why-"
"Oh, you're admiring the hanging

We reached the sportment building,

Oriental silk print, isn't it?" That was the first realization I had that the nook was hidden by a certain of some sort, and that Dillard Harpe was ambushed behind it; or that he would be ambushed if I hadn't come

conjunct with those Y-ray peopers. So I enloyed and managed to serve that the hanging was a perfect triumph of design. The Wheatland phoney didn't tumble, but he did put a chair for me in the corner furthest from Differed

Harpe's hiding place.

Then he touched a button on a desk. and a hell many. In from the kitchen came an Oriental servant with a tencart. He was the urilest Moncol I had ever seen outside of a war-scare cartoon and the muscles of his bade revested to my cloth-penetrating vision,

looked tough and wiry and jujitury. He wasn't carrying a gun, only a long wavy-edged knife, stuck under a belt of which I could make out only the from buckle. So there were three in the kidnon some, all armed, and I beens to know a new all-time high of being scared. Three gamesters with guns and knives can not plenty of chill into one science student with X-ray lenses

The teacons were visible, all right and I could handle mine: but the sandwiches, being organic and lifeless looked like a bean of thin fleery cloud on the plate. I had to refuse with thanks. Wheatland-at last I was thinking of him as a man, not an old witch who had magically changed sex-was keeping up a conversation of fashious and bridge-playing and such womantonics and Mariorie tucked up at one and of her drenn was laurbing and chiming in I didn't say much, and what I did say must have sounded

boarse and absent-minded

yonder. Yes, it's a beautiful piece of apartment, balancing a teacup on my kneer slanturise across the room my eld needles unconcernedly and honpily, with nothing on but a shadow of eray: two men with gans, watching like hands: and the Manchale housely brother lurking in the kitchen with a ekinning-knife about two feet lang. It was the sort of situation that rises in a movie acrial, just when the acreen flashes out the words: End of Etizode 8. How Will Cuptain Inch Tumblemeter Outsit the Pirate Harde and

Rescue Ludy Clarissa From a Fate Worse than Death? Return to this Throter Newt Week for Fairade a at HOBOKEN HAMSTRINGERS. The ble difference was that I couldn't writ a week for the showdown. Something was due to break loose any second, and I'd he in the thick of it Wheatland finished his ten, and turned to the deak. He picked up a pen and looked across at mr. "Will you do

a favor for my? ... " It was still the write of the obtained school teacher anstern but loveable who was bringing two young sweethearts together. and who was entitled to ask favors. I had to say, "Why, of course, Miss Wheatland," and Mariorie beamed at me for being a nice, polite boy,

"I'm going to write a little note." went on the wolf in teacher's clothing, "I was lust wondering if I could impose on you to take it out and mad it?" A erin at both of me mount to look kindbe. "As a renter of fact Mariocia mudear this is to warr father. It is to assure him that I are taking order-fld core

"I see," nodded Marjorie. "Thank you so much. Miss Wheatland." "I see," was my echo, and I did see.

This was to be the ransom note and Whentland was telling about it going to Maximie's father to explain the name I Racton Connon on the envelope. You mind went X-ray, too, for a moment,

DUT vestself in my place sitting in the corner of a strange, swanky

and I seemed to have a vision of what the letter would read like—something on this order: Mr. Canton:

Mr. Canron:

We are holding your daughter prisoner. Don't try to find her or tell the police, if you want to see her alive again. Draw \$700,000 from the book in old hills, and

from the bonk, in old bills, and wait for word from our representative.

I let my eyes wander toward t

I let my eyes wander toward the nook where Dilbard Harpe, America's Public Eateny Number 1-A, thought be was hidden from ties. He was hidden from ties. He was hidden from the He was hidden from the He had be my straight with a true fielded on his chest and the gun dangling by its trigger-gasand from of forefinger. I suppose my size bad given him a little start at first, but dymhocilitye, joseper who, instead of being more than the start and about 100 diggs joseper who, instead of being diagrenous, was about to oblige by run-

ning an errand. Whreatland bad appurently finished the note and was folding it. He did something else, with a sliding motion—that would be to put the letter into an envelope. Then be lifted his hards to his mouth, licking the flap I couldn't see and stuck it down. He opened a drawer of the desk and fumbled in it. "Here's a stamp," he amousted.

"Now, Mr. Sterrett, will you please mill this? There's a post-box just outside this building, on the corner. "Of course I will, Miss Wheatland," I said, getting up and coming to the deak, "Where's the letter?"

"Why, here it is, right before your eyes." And I was able to perceive, in his outstretched band, a pale obloughlar that must be the envelope. "What's come over you, young man? Something troubling your mind?"

FOR the first time, there was a dentily note in that voice so carefully pitched in old-maid timbre. Wheat-

what hand was suspecting me at last. It was hing Marjeric who saved me for the moment.

"Oh, you must forgive Sam," she ere laughed from the divan. "He's a solor one. Probably he's turning over some son probably he's turning over some son probably he's turning over some son probably he's turning over some

mind."
"Yes, yes," I made haste to agree.
"That's it, a new formula."
"Indeed?" Wheathand still sounded

"Indeed?" Wheathard still sounded as if he was on the point of reaching for his hidden gun. "And what, may I ask,

his hidden gun. "And what, may I ask, is this new formula?"

"Ob, a—a new type of magnetic attraction." I replied on inspiration. "I

was reminded by—this.*

I put out my hand and picked up from the top of the desk a round, gleaming paperweight, the size of a ten-

"That can't be magnetized," demurred Wheatland at once. "It's made of brown"

did He knew the rudiments of science, did that disguised torpedo, but he is didn't know the inspiration that had to come and was now growing in my the brain. Already I was six jumps ahead of that obvious objection.

"This is quite new and startling, Miss Wheatland," I babbled as plausihly as I could manage, "We've been experimenting in secret at the university. Brass can be magnetized to un amazing degree—any heavy object has, of course, certain forces of gravity to be developed and multiplied within it.

Our new power, which involves the contact of living flesh, attracts masses of like substance to each other, even at considerable distance." By now I had spied, in front of the arty-looking fireplace, two big brazen andirons. "Let me show you indies one of our experiments."

Wheatland's suspicions were alloyed by new but be didn't want to see any

INSIGHT

marvels of science. He wanted me to carry that letter to the post-box, and leave bim and his fellowarts alone with Marjorie. "Later, perhapp," he put me off, "Wait until you've mailed this—" "But it will take only a few seconds," I plended, and Marjorie leaned forwant to add "Yes. I want to see what

I pleaded, and Marjorie leaned ward to add, "Yes, I want to see he's going to do." "All right, all right," agreed W land, not very graciously. "Go a

"All right, all right," agreed Wheatland, not very graciously. "Go ahead and show us. How does it work?" "First of all," I said, imitating the lecture-manner of my stuffiest profes-

sor, "I shall shot oil the magnetic influences from this paperweight." I fished out my handkerchief and knotted the brass lump inside, then laid it on the deak once more. "Nest, Miss Whestland. I shall sak was to helm me."

"Help year? How?"
"I want you to bold this." Turning
to the fireplace, I picked up one of the
andirone. It was wrought all over with
cute medern designs, but it was big and
know. "Let's have you sit where I was.

That will give us the length of the room to show off the experiment in."

"This is exciting," squealed Marjorie. Wheatland took the andiron I

forced on him, and went and sat in my chair in the far corner.

"What next?" be prompted me.

"Hold your hands at consider ends

of the andiron," I directed, very impressively. "Yes, like that. Now, knead the two ends in your palms. Hard.

That's it. Keep doing it."

"What's this for?" he wanted to know.

"We don't quite understand as yet."

I replied glibly. "I said that this is a very recent type of experiment, and the power is rather mysterious. Some of the professors think it's the human lifeforce, which in some ways seems cheely related to electricity, communicating itself to the brass. Others say that there is a sent of sub-atomic affine. ity between flesh and an alloy of copper and zinc—"
"Young man," interrupted Wheatland icity, as he rubbed at the chunk of metal, "I begin to suspect that you are

ind felly, as he rubbed at the chunk of metal, "I begin to suspect that you are having a rather feeble joke at my expense. Let me warm you that I am at women who is not used to being joked with."

"Ob, but I wouldn't dream of joking with you," I made laste to say, "We've rendy to start now. Keep kneading the ends of the andiren. Faster, Miss Wheatland. Now..."

I PICKED up the paperweight in the

I hundlerchief and walked to where, in the curtained roots, secon Dillard Happe, ensecuted from every eye hat mine. He had come fereward agoinst his hanging, as if to peep through a hole and see what I was up to. I turned around with my back to him and faced the room. Harpe was so close to me that he could have reached out and

s. grabbed me.
"Now," I repeated, "I shall demonstrate this new magnetic force. I shall release this bit of brass from its wrappings, and you ladies will see it floot by like a bubble, clear across the room. It would stop until it touches that andiron in Miss Wheatland's lap. Are you both

ready?"

"Ready," grumbled Wheatland, and
"Ready," cried Marjoric. I smiled as
disarmingly as I could, and held out
the weight in the handkerchief, so that
it dangled at arm's length in front of

Then I spun around, as bard and quick as I could. The brass weight swing libe a blackjack. It struck the banging, and rang like a bell-chapper on the skull just behind. Harpe gave a sort

the skull just behind. Harpe gave a sort
of moan and began to collapse.

But I didn't wait to see him finish
the fall. I let the spin carry me clear
around factor the moan aroun. Max

jorie was shrinking back on the setter, ber mouth open as if she was trying to scream. Wheatland was half out of the chair, throwing the beavy undiron from his lap.

I drooped the handkerchief and paperweight, and made two striding leans. At the end of the second, I had my head well down and my arms out.

I left the ground in a fiving diving tackle If Coach Los Little had been there. he'd hear been critical. It's illegal-in football--to tackle with both feet off the ground., But it worked beautifully.

above Wheatland's knees and back he tumbled, into the chair. The chair went over, so bard did we hit it, and broke into a dozen pieces of kindling. Wheatland struck the floor beyond, with the flat of his shoulders, and for a moment I was standing almost on my bead above him. Then I twisted out of what might have been a somersoult, and dropped on his belly. I remember wishing that my two hundred nounds

was two thousand.

It was mucking out as I hadn't dare hone. He'd had to scoon that and/ron out of his lan before drawing his own. and so I'd wan the moment of time I needed. Wheatland was arrows but game, thrashing around and digging for the pistol, but I kept on top and clutched his right forearm. His left fist smashed up at my face, and I felt my eves blur as my head snapped back and these X-ray lenses flew free to land on the carpet beside us. But I hang onto his gun arm, even when he hit me a second and third time. With my left

and erabbed the our myself I rose to my knees. Wheatland tried to erapole, but I brought down the gun-barrel across his temple. He melted

down like a snow man in a heavy than There was a mouthful of Oriental expletives from the kitchen and the servatt rushed from there, his knife whipping out from beneath his white cost I pointed the captured pistol. "Drop that tond-sticker!" I velled. "Quick!" And it tinkled on the floor

"Get your hands up and stand with your face in that corner." He did as I told him. Now I could spare a glance for his two pols. Dillard

Hame was lying motionless, half out of sight. His bead and shoulders were twisted up in the hanging held polled My right shoulder smocked inst down and his own had bounced well out of his reach. Wheatland lay crumpled at my feet, breathing heavily and fluttering his eyelids.

> MARJORIE got up sunt..., ... divan. Now at least 1 could see that new dress of hers, about Scoo worth of beautifully cut gray silk, "Sam," she was quavering, "what's happening." "It's all becorned." I reassured her. "These there merry men thought they

> were sains to carry you off to their lair -Look out!" I warned as she came closer. "Don't sten on those things. they're valuable!" I bent enickly and snatched up the two curved pieces of class from in front

of her approaching slippers. "Thank beaven, they aren't broken," I mumbled to myself. "Not even chinoed." Mariorie was staring. "What are

"Nothing," I made haste to reply. "Nothing at all, Mariorie-iust a-a pair of good luck pieces. Now be a good girl and telephone the police while

hand I tore open his blouse-now that the lenses were gone. I could see his I bold this gun on our friends." clothine, very prim and old-maidish-Ninety minutes later I was sitting in

the office of the New York chief of detectives. I was smoking a bie cigar that I didn't particularly want, but I.

Burton Cannon had given it to me. He'd also said what I'd never hoped to bear-that he would be proud to have me as a son-in-law, and he hoped Mariorie and I would have at least eight sons just like me, and that I must be one of the brigade of vice-presidents at his bank

The chief leaned across the desk tostand me. He had to speak loudly. for in the end of the mom a G-man was telephonine to Washington trying to convince somebody he called "boss" that the Dillard Harpe gang had just been captured by a lone, college hoy.

"There was a ten thousand dollar reward out for Harpe," said the chief of detectives, "and five thousand each for Wheatland and that vellow boy with the knife. Considerable potatoes, Mr. Sterrett, and I hear that you can

take a banking job if you want it." "I don't intend to." I assured him. "I hoped you'd say that!" he crowed. and grabbed my hand, "Look here, Mr. Sterrett, we need young men like you in my department. So if you'l-" "Thank you sir." I said. "but I'm

soins to set up my own office with that reward money. I'm group to be an independent investigator." He broke off and sank back in his

chair "I still don't see hose you man-

60 Dynamic Different Birches subfished Birmenting at Chimage, National Sign Typinson, and decision I, 1986. Sign Typinson, and decision I, 1986. Sign Typinson, and decision I, 1986. Sign Typinson, Control and Statistic Parallel States and decision States and remain control and decision of the States and Statistic States and decision seems from the States and States and

The Total Manager Ettine mentioner, African problems in the Control of the Contro

whole snatch to the last detail. Wheatland's disguise was so good that he even fooled the other teachers: Harpe was completely hidden, and had his own in hand: the Oriental serred to be only a servant. Yet you found them out. centured them, and turned them over with full convicting evidence in the form of Wheatland's kidnen letter. What's your method anyway?" My hand creek into my side-pocket.

aged it. That gang had planned the

and touched two little shells of class. "It would be hard to evoluin." I besi-"All I can call it is insight" nodded the chief of detectives "Yes, sir, Insieha." In my mind I hegan to plan my work. I'd keep the secret for a while, use it

to detect crime and build up a reputation. I'd have a laboratory, to develop this X-ray gadget and other things. Some day, maybe when I retired, I'd tell the world. . . . A knock sounded at the door, and a clerk stuck his head in. "Mr. Sterrett." he called. "Mr. Can-

non and his daughter want to know when you'll be ready to so to dinner with them." Gee! How would I ever tell Marjorie about the X-ray eyes?

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CRECULATION, ETC., REQUISED BY THE

Hr. been r.

I that his effects against at Oils, a suit or showed to address of a suit of a decident to read to a suit or showed to add a decident to read to the suit of a suit of





ANANIAS

Are powerful machines of scientific destruction the greatest strength of a country of wor? Or is there a wore similar instrument, known as subtle propagated?

TRUTH, like a sem, has many a behind-the-scenes entrie and a bird'sfaces: you do not know it until eve view of the technical developments you have looked at them all. of the war. Much of my time is spent More and still more books on the late burrowing in dusty library files, searchwar between the Confederacy and the ine out facts available to all but known Alliance mil from the neeses: If I neeto feer again much is sored in later. views extracting the facts of tomorrow sume to add further printed matter to this vost and growing pile, it is in the from the vital minds of today, hope of providing one more facet. unique if small, to the gem of truth.

The hope is, I think, reasonable: my

position as science editor of the New

Yark Times-Tribune afforded me both

A NOTHER big war was foreseen as far back as the Thirties, and the nations had set about grimly preparing for it. The expensiveness of the prepa-

PROPHECY IN THIS SMASHING FEATURE LENGTH FUTURE SCIENCE NOVELETTE

WHAT DO TO DAY'S HEADLINES MEAN TO YOU? THERE IS AWESOME

you promised for my Sunday page? I don't want to have to fill the holes with

Give me a ring next time you get down to New York. So long,

user stories about 2-headed chickens!

ration may have been responsible for postposing it more than thirty years. The generals would go around to a goverament and say, "We're in danger of being attacked by countries A, B, and C. Therefore we need such-and-such

C. Therefore we need sub-handesuch to the control of the control o

would hegin over again.

The ideal solution for any one nation would have been to have a greater armament than all the rest of the world combined, but no nation was in a position to do that—especially since Chian had creased to be one nation, and was divided into eastern and western halves, under the Jungarees heel and in Bussian under the Jungarees heel and in Bussian

leading-strings respectively.

In due course two of the future combutants found themselves "ready" at once, and the necessary ineignificant occuse was found, and the war was on. Within a year we were in it, despite our good resolutions—or were they

our good resolutions—or were they good? Since we shall never know what would have happened if we had stayed out, there is no scientific way of settling the question.

I was hired by the Army Intelligence Service as a part-time (villing eme.)

player: an employee because modern Intelligence week consists of, besides active epiolosay, an encomous amount of study and comparison of public or semipablic documents, such as govcramental reports, yourbooks, patient allice publications, etc., by which wabable information can be pieced together out of understorious limits; a civilian, because my work was to be known only to my employees, part-time, because

is for Intelligence valued my contacts with ears, sources of news that didn't always pass government of the state of work in private life.

Such the evening of May 4, 1971, Additional Dablyren called at my apartment.

which was as usual know-deep in pagess—though of cursor I kept no ondiffertial ones there. After we had talked to this and that, he said: "Young man, your technical friends are driving us nuts again. If was had enough when they pashed airplane speech up into the four handrids and upset all our calculations; but we knew the compensibility-borthy point put a ceiling on that and that they candid up ext very far over free handred. Now they've begun

putting these auxiliary rocket-tubes on hembers to enable them to spring away from pursuit-'planes, and compressibiity-burble doesn't matter; so God knows what they'll do to our figures now. They may go up over a thousand. Hmp. Dann it, where's my pipe?"

Hmp. Damn it, where's my pape?"
"They have," I said.
"What?"
"CURE. Haven't you Navy people

Desired about it? It's a new Arado
that files on its tubes alone except in
taking off and landing, and it's said to
do around twelve hundred miles an
hour. It's for photography only, hecause at that speed you can't hit anything much smaller than Manhattan
with a bomb. Descrit even carry a
with a form. Descrit even carry a

gun, because things go by too fast to aim at them."
"Imp. If your boys know about it, ours probably do too, only they didn't bother to tell me. Nobody ever tells me anything," he complained. "Darm it, what did I do with those matches, I suppose those dumburmy designers of ours got caught flatfootti, as sand.

by Hmp. Have to put the screws on them. see They've been promising us an effective

ANANIAS

rocket-ship for six months, damn it, Ah-hi" The Admiral had found bis "You know. Hashrook." he went on "The more I look at this war, the phonier the estensible reasons for it seem

The idea that the members of the Alliance are fighting for needed natural resources has been morn neetty thin ha our modern advances in chemistry agronomy, and so forth. You don't need much resources to support your people nowadays. On our side we talk about saving democracy, but I notice that our line-up includes some very peculiar-

suppose, though that you can't be too fussy about your friends or you won't bove any. "If I were to try to put in words my own feelings. Ed say that we were after tangible things, such as food, clothes, shelter and entertainment for our folks We may not know just how to get them but at least there are such things. The other side seems to be fighting for

divinity of their ruler. "They're also after their national honor, which as nearly as I can make out is the kind of prestire you get by inflicting insult and injury on another

and setting away with it. So every so often they have to injure or humiliste their neighbors as a matter of principle previous promises to the contrary notwithstanding, hmp.

"The Hell of it is that you can get people fighting over these imaginary abstractions, such as honor, if anything and the Alliance knows it -at least that devil Raiberti knows it." Here my crusty friend exhausted his stock of four-letter words on the Alliance's Chief of Public Enlighterment, "And with

everybody carrying a radio the size of a watch we can't stop him. We can't even blanket these wave-crest modulated sets without smothering all our own stuff at the same time. If your technical friends-" Just then the world outside was litup as by a noon sun. Then came a sound—the sort you feel rather than

hear: but I should describe it as a yast CAME to lying in a corner of the room. I couldn't have been out more than a second or two, because through my now sanine window came a longdrawn-out roor, made. I later learned.

by tors of steel and masoury showering on lower Manhattan. The Admiral was already up, swearing in six languages. The lights slowly came on again. The root died to be replaced by official sirens and gones. To the South over the bedge of skyacroners a red slow lighted the belly of an immense smoke-cloud. We tried

the telephone, but at first it didn't work, things that either don't exist such as and when it did all the numbers we the purity of their race, or whose excalled for information were busy, As Paterned back to the window, a piece of paper the size of a playingcard flattered in. Across the top, in 24-point bold-face, were the words "Don't Be a Sucker, Buddy!", and below it one of the cleverly-worded anneals of Raiherti's carp proving that the Alliance really thought the world of us, but that we were misled by our

scheming politicions There was no mystery about it. The Alliance had seut a radio-controlled rocket a couple of hundred feet long. with a mighty charge of explosive in its gose, across the Atlantic from the Alps. When it was almost over New York, a number of little auxiliary rockets full of these love-notes had been released to scatter their load, while the hir one dove into the financial district.

The next day I got a pass to the the men and the tiny noises of their scene of the explosion. Where the City instruments.

DYNAMIC Science Stories

Bank Farmers Trust Building had been

came. A battery of new gens had been put up so hurriedly that there were locapitates in the emplacements where the creue had walked hefere the concrie; was dry. The guns themselves looked incredibly lange, but that was because of the water-jockets six feet in dismeter (including the coding-sins) around their barrels. A coding-sint basize of a low-car, fluil of thousers and machine, was required to dissipate the contract of their charge-consistency and their contractions of their charge-consiscentimes.

I descended into the fire-central room, which was full of men unconcercedly smaking while looking at indicators and osefflographs and pushing huttons and turning knobs. The min view-plate was a four-foot glass square, harke except for a grid of green lines. The adjutant explained this and that to me, and a huzere sounded. The operator in front of the main plate said over his shoulder, "lifere the comes!"

I saw the man tense themselves.

At I the top of the plate a white dot
appeared and moved slowly downwise
the glass, leaving a thread of purple
light belind it. I held my becath, but no
you can't do that for ten minutes, and
the recket was still far out of range,
the recket was still far out of range consider except for the prescription.

The dot reached a line a little leavier than the others, and I know that the rocket was fifty miles out and angling down from the stateosphere. The operator pressed another husers. Through the reaction of t

until they lanked like a cluster of arms The white dot seemed to sucress slight. ly, and turned red, meaning that it was dropping out of the plane represented by the plate. The operator soun a handwheel and brought it back to white ngein. He kept turning, turning, until his altitude dial showed zero. The white dot flickered and disappeared. Somewhere out on the Atlantic a column of steam marked the end of the rocket. It was all over. The defense had caught up with the offense seain. It had caught up elsewhere, too, The main cities of Europe were buried in sandbags and sheathed with explosion mote and ringred with guns that

sion-max, and ringed with gens that could in a twishing histo out of the sky any headle sixtunit, regardless of the headless of the sixtunit, regardless of the battlefelds, long lines of conocalade gun-emplocements perced at each other from Behind harde-wirer, conocaled pits, fences of railroad-froms stock upon the sixtunit of the conocal pits, fences of railroad-froms stock every other different that desperate near could devise. No-ment's land was sportant that the sixtunit of the sixtunit of the Med with the refusion of ress and of tunks that had tried to cross the space.

toes and seismographic detectors and

fired. When a shot went home, the gan

and its crew were replaced, and the war

Our Tarkish friends drove through Thrace for a few miles, and were stopped by the Balkan erray under Vacarescu. The Indians were slowly pinched back linto Begal by the vast Jugoness-differed Chinese armies of the Alliance, with the help of a few Samese divisions. Things went against us in Urquests.

west on.

As the hattlefields became more littered and shell-pitted, and as the contestants due themselves in deeper, the smil-like pace of the war asymptotically approached a dead stop. But in the minds of men another kind of war was being fourht. You bought a pack of elegrettes: the third one that you took out suddenly meniled into a strip of nearer bearing a propagately metsage. You called the police, who arrested the clerk, the delivery-man, the dealer, and everybody at the clearettefactory through whose hands the smoke might have passed. Their unanimous denial of knowing anything stood up under the lie-detectors. You couldn't shoot them all in the hone of

whereas our side was supposed to be more humane.

YOU bought a head of lettuce, and the groter made out your receipted bill. The bill was normal enough when the striffed it in the paper long of provisions, but by the time you got home it had changed into one of Raiberth's

it had changed into one of Rishbertl's billetdoax. You had the groot arrested, again without result. Admiral Dabligers, looking in civilian clothes more than ever like a

Annual longers, locality in Cohese more than ever like a Minnesota farmer, was in my spartment one evening when I turned on the
radio. I set it for a commercial station,
but when I threw the position a hearty

weier sald, "... stattement by Senation

James, Now, Yolks, we don't like to

the duds a senative's word, but when your

consolve that in 1946 he was held for

your main observation in the Das Moless

CRy Hoogslan, we think it should be

of takes with a main of sail. If the

takes it you want to know how the

like is dough, I'd suggest you look into the

matter of the Oregon timple leases of

supply and compare that with ... "I he

wice was formand ha a batter of dance
ter vice was formand ha a batter of dance-

voice was drowned in a blare of dancerousic. The commercial station, no doubt in response to feantic official telephone calls, had changed their wave-form to blanket the Alliance station.

"The swine!" burbed the Admiral.

"They a lot of inside done, and I know

James had nothing to do with that scandal. But they're so dammed clever that their biggest lies are of a kind you can't absolutely disprove. Remember the last time they pulled that insanity gug? They said President McRae had been in the looney, hin of White Plains. Then it surred out that a small fire had setting the hostile agent; you'd have to destroyed that hospital's records, so that no matter what McRae said there kill too large a proportion of the popuwas always a shade of doubt in people's lation, and besides that was the sort of turbarity practiced by the Alliance, minds. Hmp." Another time be brought up an in-

dividual who looked like a non-vorticist port, whom he intreduced as Dr. Quendin Heyle, the psychologist. I was surdiprised: I'd met many psychistrists, but most of them were men of conservative appearance designed to give confidence to their patients.

The Admiral spoke glocently of the var. "Same old story, bup. Treable on the Uncalian front. Trouble on the Uncalian front. Trouble on the Uncalian front. They had a hit-tile mutuay in the Chinese Soviet's grad to the business. Propagonda, of course. Anyberdy who can beat the Communities at a, that game is good. You probably to haven't heard about it; the muture

story should have been censored out succeed it from the censored newspa-

before it got to you."
"No," I repfied, "I haven't, but I
have beard about our own morale troubles in the South and the Midlands.
Raiberti's song-and-dance has been
making headuran in the Chicaco area."

The Admiral was going through his usual motions of huming for a match. "Dame, duann, where'd I put these? You know, Hashrook, our technics are easily as good as the Alliance's, but in this 'public enlightermen' business there was been best advantation may

are easily as good as the Alliance's, but in this 'public enlighteament' business they make our best advertising men and psychologists—with due apologies, Hoyle—look like children."

THE dreamy-looking Hoyle pulled his teng hair, and said: "Repeat a thing often enough, and it leaves an indelible impression on a man's mind, whether he wants to believe it or not. If either of you gentlemen are married

you'll know what I mean."

"Hup, hmp. I am; Hasbrook isn't
that I know of. I get you, though, Doc.
It sort of wears a path through the
mind, doeun't it?"

mind, decent'i it?"
Hoyle was silent for so long that
Dahlgren thought he hadn't heard, and
started to repeat. But the psychologist,
still leoking at mothing, raised bis hand.
"Wears a gath, yes. I suppose one
could describe it thus in popular terms.
I think you've gaid something, Ad-

miral. If you have, we may yet beist the Alkance with their own petard."
"Hmp! What the Hell's a petard?"
"Tak, and you a military man! It's a kind of bomb used in the later middle ages for seige work, and 'boist' in that sense means 'slow up." With

the ages for seige work, and notes in that seize means blow up?" With which Hoyle retired into his own ratefied mental atmosphere, refusing to elaborate.

It was a menth before the Admiral

came around again; the Alliance was giving our Naval Intelligence plenty of overtime work. You wouldn't have genatic is from the Consecut acceptance pers, but I knew that the metal ed the countries of the Confederacy was going from beat to work. In the United States there was substage—not by spies, but by disguinted Americans in Milwankee, an attempted peece-at-any-price demonstration in Topolas, and a lynding of an Army officer in Georgia. In other countries it was worse: Argonium was practically out of the war, and Australla was cracking.

I didn't wonder. Wherever you turned, Raiberti's propaganda got in your hair. If the peopless rain of half-

your hair. If the cessless rain of halftruths, insinuations, and lies got on my nerves, I could imagine how it affected the masses of people, who lacked my inside knowledge. The usual spy-fever was bad enough, but this was something undreamed of in the old days.

The nestest trick that Raiherti's agents polled was the doctoring of a lead of newsprint on its way to the persease of my paper, so that three hours after the papers were printed the original print faded out and Raiherti's messaws took its reluce—insat about the

time the buyers of the papers were resding them. Almost as good was their placing a miniature phonograph in the microphone that McRae was supposed to use for a broadcast speech. When the President started, we heard what was appearably his voice, complete with Philodelphin socent, go off on a rambling timed denouncing Congress, the Army, the Marry, the farmers, the workers, and everybody che in sields,

use runsy, the runsy, the lames, the workers, and everybody else in sight, the talk being punctuated by frequest hicups. And all the time poor McRae was making one of the best and most reasonable speeches of his cancer! It was bardly surprising that the runses that Raibert bad started concerning the President's sanity revived.

WHEN Dahlgren did come around again be brought a gang. There way the poetic-looking, Hoyle, and is dark man who combined the outlines and manner of an Iowa realist with a buttery Oxford access; he was introduced as Colocel Both of the Indian Army. The last man, whose same the Admiral sald was Mr. Tung, was an obvious Eastern Asiatic, When I got a good look at him something went "Cirki," I almost said "Phili" but strenged at him the.

"Trungs" simultaneously recognized me and almost spoke, but checked himseld. Then he laughed. "We might as well own up, Walt. The Admiral knows who I am, but he didn't know that you did."
Years before, I had gone to highschool in California with a Januaries.

American boy named Philip Öluma. He Indi-ma incredible thing unless you knew him—been elected student-body persident. But some local patriotic society became exercised and forced a change in our so-called Constitution, so that poor Phil was stuchered out of his job. The experience hadn't somethy him.

Now be manticard that he was ability famility on the property of the saked. "My people have been in this country for three generations, but a lot of good that does me, when every Jap is supposed to be a spy, a sabreour, a emperor-norshiper, and a lot of other things. And is Japan I'd be considered a foreigner who had been exposed to the wicked and implous ideas of the Western berbritism." He

The Admirful called the meeting to order. Hoy's handed thin a little black cylinder, about the alize of the erace in the end of an ordinary pencil.
"Coloral Boch," Dublighers sid, "Your job is this: your agents are to introduce these—three things into the electrical communications of the energy in Surms, without getting

laughed again.

caught. You have, I know, pilled risktie jobe before. "In having the technical details typed and photo-effect, you'll get them knoorrow. Trans to you'll get them knoorrow. Trans to ness installed in Japan. I'm sort we had to deprire you of a good medar. Okums, but I think you'll find the fake one we gave you to held theham—capasite weeks will. The capaones installed, cannot be removed without setting of a minute charge of

witness setting off a menute charge of the thersite in it that will destroy it. I can't tell you how it works, not even you, Hashrook, but you can take my word that it does. When it and, we hope, several thousand more the it have been givern a chance to work, your general staff will be given the necessary information."

Both, who was, I knew, a much more diamerous man than one would have

diagrees man than one would have is suspected from his aggressively harmod less exterior, made a fatuous little speech shout doing earls duty for one's per people, Sri. We talked of this and that, and they went.

N about a month, my sources loging to turn up in secretilar reports. A paparose cruiser sepandon was easight and Remo-American feet of the secretical reports of the secretica

battleships within hundreds of miles.

Is Lithuapia, General Caranewitz*
was count-martialed and shot by the
Alliance high command for saying that
all was quiet on his frent, when actunity the Residents had broken his line,
and he was just about to jump in his
our and fibe to avoid being run over by
his own extrailing treops.

Dictators was Freygang and Botorbendquarters as a stenographer. But oric weren't on speaking terms, each as a result of the operation of the capsavening that the other had believ Eed sules there'd been some bad losses on

swearing that the other had solarly not to him at their last meeting.

In Bengal, Field Marshall Sato started an offensive with one day's unmunition, after assuring his Supply Service that he had enough for a

menth. When his Chinese troops run out of shells and carridges and the Indians counter-attached, the results were pitiful. The Indians almost gas across Burma lates Stam hefore they were effectively opposed, and their advance was steepped more by the clopging of their supply lines with lumterial for the counter of the counter of the counter to the counter of the counter of the counter of the technic of homespade prescripes then be

ging of their supply lines with Insadreds of thousands of priseners than by the frantic efforts of the Alliance armies. I suspected that senebow our buttery friend Bosh was at the hottom of the ofbarle.

Then one afternoon the Admiral paid me another wish, his last one dumtion the war. "That them others is notic.

ier than a triple eighteen-inch turrer;
be said, referring to his office. "Poury
three minutes somebody pops in with
a "Sir, what do I do with this norr?' or a
"Sir, Commander Zich sends his conpliments and wants to know someting," and so or. Two get to get these
reports read, so I came up here. Listen,
Hashrook, will you call up on that secret 'phose of yours and arrange to
have now intelligence.

'phoned up? Big news is likely to break any minute."

He settled down to his reports. Presently the hell report and in welled

eatily the hell rang, and in walked Philip Okuma. To the Admiral's and my questions as to when in Hell he was doing here, he replied that he'd just been flown over from Siberis, and hadn't found Dahkgren in his office when he went there to report.

"For a while," he said, "I bod no trouble installing the capsules, as I had been given the rank of corporal in the Imperial Army and was assumed to

Eed sules there'd been some bad losses on the Manchurian front, and the first thing I knew I was shipped off to the amtreches, keaving my subordinates in publ intelligence to carry on the good work or a with the capsules. Tan "I some found that morale wasn't to be the way and in my outfit, the reason being

that people at headquarters had been making so many statements that failed to prove true. "ANYWAY, last week we were ordered to advance across the Sun-

gat. The advance weat fine, with amphiblin tanks to support it—except
phiblin tanks to support it—except
and the support it—except
that of the height man on the left phi
that of the height next to us had simply
plated one, for no apparent reason, and
game berns. Of course you never relating just whit's poing on on a battlefeld,
but I was chief battalion runner and
aga a better felse than most of the men.
"With our flank in the sir, the esum—that is to see, the enemy of the

army in which I was osterably zeroing—seasted on time, and we had to full back on the Sungairi. We day in in some marshy ground on the inside of a bend in the river, and waised. Our batallien had only four officers left, actoptain Ishin and there lesteneates. We att in the must for thece days, and ren out of most of our ammunitation and all

of our food."

The 'phone rang for the Admiral.

When he finished listening, he said with
a brood grin, "The Brazilian Army bea
asked for an armistic. Todd you something was going to pop. Go on, Oku-

dhing was going to pop. Go on, Okuema."

"As I was saying, we sat there, wish contain Ishii trying by radio to get ad semething done shout our precarious to position. Finally Headquagters anneumed that they were sending some

planes over to drop supplies, and asked our exact location, which was given. "Pretty soon the airplanes appeared, but instead of supplies a bomb came whooshing down, and we scuttled for

our boles like a lot of prairie-dogs. The planes dropped three more before the Captain, by frantically waying a Japanese flag, got their attention.

"I could suess what had happened: a capsule had been influencing the oncrator at headquarters, and he when given the position of our battalion, had

proported it as that of a group of the enemy: The bombs bodo't done much damage because of the softness of the ground but I still felt that the capsoles were marking a little too well for my comfort. Having been brought up in this country, I haven't quite the fatalistic attitude about death that a true

Ispancee possesses. "After the 'planes had gone, and Captain Ishii had protested loudly into his radio, an amphibian supply-carrier appeared across the river, splashed into it, and puttered over. It crawled out on its tracks, and the driver hove out four

large boxes. "These, Sir," he said to Ishii. 'Are your food and ammunition.' "Ishii looked nuzzled. 'Why are the boxes marked, "Woolen Mittens"?, he asked.

"The driver answered, 'The Honorable Headquarters did not inform me. Sir, and drave his machine back the way it had come "We hacked open the boxes in a hurry. I can tell you. You can imagine the

feelings of those soldiers when the first was full of recoke mittens. The second and third were likewise. "Captain Ishii said in a strangled voice, 'Open the remaining box!' We

"Just then Captain Ishii spotted Serveant Wada reading one of the innumerable propaganda leaflets with which the Russian 'planes had show-

ered us. "Sergeant!" he harked, "I thought I told you not to read those HE sergeant just looked at him. and said 'Sure you did, but I didn't

promise not to." "Ishii looked as though he were going to have anoplexy. Not only was the

sergeont being insubordinate, but he was poing the forbidden Fourth Inflexion. The Japanese Japanese has four indections implying different deerres of politeness; ordinarily officers use the contemptuous Fourth to enlisted men, and enlisted men use the respectful Second to officers. The see-

"Sergeant Woda went on: 'Furthermore, I'll do as I damn please. You feoling us long enough. You've given us every reason to believe that these

Russians/-bere he waved the paper-'are right after all, when they say that all this talk about the divinity of the Emperor and the slory of the Empire is just a racket. In war you expect people in authority to lie, especially to the enemy and to the masses on their town side. But the members of our High other as well. That bombing this morning and these mittens aren't the first

of such happenings, but as far as I'm esticemed they'll be the last. Nobody in his right mind wants to fight for such crazy people. Who's with me?" "Ishii whipped out his big old sumu-

rai sword and started for Wada, but a big gon went off and the Captain fell with his face in a puddle. We were astonished to see that Lieutenant Tatsuta had killed him. But then these lieudid, and it contained-woolen mittens.

tenants were all pretty fresh from the ranks. The shortner of officers had made it necessary to promote them in a hurry, and they couldn't be expected to

take the sumurai code as seriously as called a co-o the military-academy products. how co-one:

"Tatsuta said to Wada, 'Tin with you; I think you're right. How about you, Kanzaki?' speaking to one of the

you, Kanzaki? speaking to one of the other two lieutenants. "Kanzaki said. 'The samurai code.

leaves me but one course,' and before snybody could move he had pulled his pixed and bloom his brains out. "'You, Ichikawa?' said Tatsuta to the remaining loosy, a nervous little

rabbity msm. Ichikawa answered, Weeli, I suppose I really ought to kill myself too. But a lot of queer things have been happening, and if it should tern out that Wada is right, and the samurai code is actually the bunk, I'd have killed myself for no good reason. And if it transpires that Wada is.

wrong, it will always be easy enough to kill myself when that time comes. So I think I'll go with you boys for a while and see what beppens?

"We hoisted a white flag, and peetty soon a tank rattled over the nearest rise and us to the olde of the soft remed.

A man in a Russian uniform get out and issled us in a strong Mongol accent who was in command.

"THAT was embarrassing, because clobused verseant Woda was the

I deviously Sergman Woch was the commander de jeste, and Llestenan Tatesta was the commander de juve. They began nagging about it, bowing and hissing politisty therough thirt setch, jubut the Mongel follow said to skip, in and ordered us to fall in. As we startisted to much sury, one little private aixed the Mongel if he was going to an experimental and the starting of the analysis of the starting of the starting and suid. Why shealt we? Yee'll all he good Commandes by the time we withreadly ship year!"

The 'phone rang again. When the Admiral had finished listening this time, be was fairly bursting. "Poland has out! In Italy they've set up something called a co-operative republic, though how co-operative and how republican it is remains to be seen. You Freygang has killed himself. The King of the South Slavs field from his palace in his palamas, and when last seen was pulling his pants or in the calin of bis private 'plane just before it took off.". Be paused for heratik. While be was

putting this paids on it the chinn of the private plains gain before it tools off."
He paused for breath, While he was cutting it, I suggested pertiag our celebration gives a part of the particle part of the particle pa

still astronomical as a result of war rationing. We drank enough cocktails to that all the food tasted petty good whether it was or not, and the Adminal add to Hoye's "Hashrook here has been adding me leading questions ever since I had you up to his plate, tyring to find how your capsule works. I guess it wouldn't burt to tell him sow, especially as be's the most discreet man II know, except maybe Ghuma here, dasim know, except maybe Ghuma here, dasim

Hoyle brought his eyes slowly back into focus. "Capsule?" he said vaguely. "Oh, yes, that's what you call my transmitter." He gazed into space for a moment.

"Remember, Mr. Hashrook, when the Admiral spoke of wearing a path through the mind? That gove me the idea. Every thought, every mantal image, every sence-impression, consists resentially of an electric discharge-peattern between militors of neutrons in the cortex of the brain. The pattern is so complicated that it is better described

as a 'web' than as a 'poth'.

"But it's a definite linkage between
definite cells, and the passage of electric
corrent quasi-permanently lowers the

ANA

resistance of the synapses between the neurons. Therefore one can re-create the pattern at will; or rather, electrically yes activate a pattern already created. This we call 'remembering'.

"In the setting up of one of these potterns by the lowering of resistance through certain synapses, many small discharges are as effective as one large one. Therefore an unnoticed sound that one hears or a sight that one sees daily heromes an integral part of one's necessarily.

MY transmitter was designed to be placed in the regular transmitter of any electrical communication system, either wire or wireless, and connected in parallel with the transmitter circuit. It was so constructed that when the circuit was activated, the little transmitter would feed a sound-modulated current of the same frequency as that of the main circuit into it. The added current would corry a simple word-pattern urging the listener to lie. For instance, the transmitters installed in Germany said 'Es ist gut zu fligenes ist gut an lugen' over and over. "The listener would not actually bear

cated in each case).

on the these words, because they were a mere create includible marriary superturposed on the trical-created by the speaker of the speaker. But, if created be used the instrument often enough, these them insure neuronic insulates caused by these sounds would in time wear the stance necessary peaks in his brain, and he'd

so these sounds would in time west the necessary posts in the tornia, and he'd all believe it was good to 'figen'. With these devices installed in the telephones and and radios used by the dictators, ministers, and general staffs of the Alliance size, and general staffs of the Alliance seen. In other words, we made pathlelegical liers out of them." Be He paused again, and I could imagine He proceed again, and I could imagine

millions of resentful soldiers taking their destrices into their own hands; of their officers, some yelling, threatening, and being contemptuously shot down, to others discreetly removing their insigients and being their men.

"That's what I means by asying that copy as well boist them with their own petart.

The All these men have reade such extensive imple use of that never chosticle weapon, the to lie. He, and they're all such accomplished that the stated literature anyways, that it didn't take as present of the such accomplished that the such consistency of the such consistency or object as it would have with them more truthful pacple."

Test yound as the second of th

seek or like the constraint of the constraint of

acce would be at the control of the

 What is the relation of a chlorometer to chlorshyll?

UNDER THE NORTH POLE

by ED EARL REPP

C

THE right was clear and moonless, with scintillating star clusters freeting the sombre sky as Sven Hagart stood with legs spread solidly against the wallowing roll of the



he he fived sections, Jair le last finesprete on out describitive-passed activative, Jair le last finesprete on out describitive-passed activative passed for the first decess by demander from the first decess by demander from the first decess of the major first describing the first he facilities that the first describing the first he first first describing the first he first first describing the first he first first describing the first

tightly and his strong teeth were changed on the stem of his short pipe. Beleind thick-tensed spectacles his polieyes probed the durkness. From time to time he screwd up his lips and specthrough the open window of the pilot house into the phosphorescent sex. Over the monotensus items of the

sing halfy as they listened to one of them playing modelous chords on a harmonica. Hagare smiled to himself, also weathered face aglow in the feetble light of the binnacle. The day's hauf had been good, the crew was in fine feettle and the ergics hitting well. The sea was running comparatively rules, with long ground swells. By force, the binder of the comparation of the control of the contr

hise depths of a placiar, he thought

for checking with the compass. Absently his eyes shuttled back to the hinnacle and in the next instant his

face became blank with astonishment and his nine supperd in his line. Syon Hagart gased incredelously at the rocking disc of the compass and then his strong teeth were clamping on the nine stem with such nower that it snapped off. "Ar det majligt!" he murmarred. "Has the stars some crass or

He blinked a couple of times, then looked out again. Polaris was only half a point off the starhoard bow, shining bright and clear. Again his troubled ever sought the compass and narrowed. Onickly he becketted the wheel, removed his spectacles and polished them vigorously. Perhans apray had warped his vision . . . hut he sensed differently as he replaced the classes, setting them

into their customary place. For the third time be stared at the North Star and back at the hinnorle again. His face seemed to drain of all color and with a throaty exclamation of alarm and puzzlement he thrust his head through the door and yelled: "Eric! Nathan! Come quick! Some-

thing iss . . . I don't know what!" INSTANTLY the harmonica silenced. There was a scramble of feet on deck. Sven stood by the hinnacle, pointing an accusing fineer at the commun. "It vevs nor'east!" he hurst out. "An' the Star is just off the starboard quarter. How can we be coin' nor'cost an' nor'dy-

west at the same time?" The seamen crowded about him and starrd. One of them rocked the hirmscle and the compass rolled lazily past the point it had been helding, farther cast. Tensely they watched, especting

no metal near to throw it off. But the disc kept on swinging aimlessly through ninety degrees of arc as if immune to the customary magnetic attraction. Syon threse up his hands be lolessly: "Iss we crazy or iss it? Or iss the stars inst flying around like lightning bugs?" At exactly that moment all over the

northern homisphere, men were staring unhelievingly at compasses which refused to make sense. The captains of great liners flashed messages back and forth asking bearings, afraid to believe their time-tried indicators, and yet afraid not to ouzzled by the strange discrepancies between evro-companies and magnetic compasses. Astronomers found their telescopes off as much as one hundred and eighty degrees-according to stationery, exact compasses.

They radioed back and forth demanding to know if the same thing were bonnening at other observatories Air-liner pilots suddenly found themselves fiving two hundred miles per hour -

in exactly the opposite direction from what they had been pursuing five minstes before. And even as they watched, the maddening cylinders of their instruments continued to swing about, now registering east, now west, now north, even south. For three hours the other hoiled with

frantic messages from men who were lost at sea, or aimlessly cruising the skies afraid to land, from lighthouse keepers who thought their great stone towers were twisting on sinking bases The Naval Observatory spent a desperate hour trying to solve the riddle, and

finally gave up and sag with folded hands awaiting the answer. And after three bours the erratic needles of half the world's compasses gradually moved hack and took up the positions 'hey had held for thousands

it to halt and swing back. But the disc continued to move steadily in a full cir-Alarmed the man examined it Nothof years-due north. Once more the

stars agreed with the faithful, slender was different, needles of steel or the broad disks of . It was stea markers' companies. Whatever it had an engine be

needles of steel or the broad disks of mariners' compasses. Whatever it had been the crisis was over. And in all the world there was only one man who knew what was happening, and that man was too far away to

ing, and that man was too far away to be of any belp. Besides, George Kanwas having troubles of his own at that moment. He stood—figuratively and literally—on the hrink of death.

For three days after he was sepasated from the rest of his party on Prince of Waltes of Irrisand, tall, bony young Kane struggled to find them. There were sto members of the especiation sent up by the Smithsenian Institute, and Kane was the youngest of them. But after endies shours of wandering about, he realized he was bore-

lessly lost.

The young anthropologist, leader of an expedicion to investigate rumors of a strange race in the Arctic—rumors they had dispelled—was in the most difficult spot of his life. He had no food, no water.

DESPERATELY, he stambled shead. His feet were as nearly frozen that he couldn't move his toes itselde the thirth boots, nor could he fits bit fingers. He lost all consciousness of time, and scenned to see nothing has soow. All his scenes were bleaded into one great, empty feelling of bring hope-lessly lost. But the finner of hope is unqueschable in mon; it kept him strugging about long after his strength was being about 100 mg after his strength was

really used up.
And then, after endless hours, George
And then, after endless hours, George
Kane suddents systalightened up and listened. His drawn face took on a new
inteneity. Frowning, he stared at the
ground. There was a peculiar pounding
beneath his feet. At first he thought
he had strayed onto fee and that it was

is of It was steady, regular. It was like an engine beard at a great distance, only this was felt, instead of heard. For only a long time he stood and tried to figure penit out. Then he looked ahead.

Through a sudden rift in the blizzard
ne he made out a tisy black object like as
small tank. He shoused and struggled
ne head. When he had reached it he
stopped and went up to it. It was a
sort of chaining that came out of the
deep sacw. The top of it was a trap
nd door with a large handle on it whereby

door with a large handle on it whereby yi it could be opened, he found after scrapning away the snow.

Kane was in no condition to wonder also bout it. He tore at the handle and found he could swing it open. He threw

it back, and then stared down. It was dark inside. He dug out a match and struck it. By its light he saw an iron ladder going down the cylindrical wall. He dropped the match, and in the instant before it went out be saw that the ladder was down that of no abstrative.

Now he swung into it, chunsily because of his bulky clothing, and started down into blackness. For long minutes he continued to descend the from rutips. After a long time be made out some sort of illumination. Looking down, he made out an consessors dow.

to Herrichy () for all his weakness, the tyoung scientist disabed on. So intent was be on to missing any range, that be was unprepared for it when shripsly his feet hit a floor. He swang around, the was in a sort of vestibule. The walls were apparently of sizely, be, and the floor the same. Ten feet from him was adversage of us in the black for He state.

floor the same. Ten feet from him was a decreasy cut in the thick for. He stagged through it.

In the next moment he was standing a stock-still, his eyes big with wonderness. The same before him was like.

stock-still, his eyes big with wonderment. The scene before him was like a setting from some unearthly fantasy. He stood at the entrance to a great cavern of ice. The ceiling was twenty or thirty feet above the floor, and cut like a mighty dome. Poished, sheafer pallars of ice climbed from floor to roof. The walls were jugged and irregular, curving from where he stood in great semi-circles that met again two hundred feet from his

The floor was of ice, too, but roughened in a scruted pattern that readered it less slippery. There was no visible lighting equipment, but walls, floor and ceiling were luminous with a soft, blue

Against the ice wall at his left was a meastrows block maso of methingry that cambled and shook the whole place. It was apparent now where the strange pounding effect bad come from. The snachinery was compact and powerful booking, and motionaless except for a buge flywheel that spun swiftly and silendly.

At the other side of the cavern a wound from beneath the floor into the ceiling. The six-dect-thick coil was of ome steely-green material that defied Kane's efforts to place it. Stunned with the mentitude of the

Stunned with the magnitude of the scene, and with finding signs of a modern civilization this far north, Kane shuffed silently ahead. His weary body threatened to fail him completely as this new burden of senscement was put on it. And then, over the ramble of the machinery, a woman's revelved down

the hall.

"Uncle! Someone's in the door!"

GEORGE KANES types rushed to the point from which the sound had come. His mouth dropped open. One more murvel had been revealed in this room of mitacles—the most beautiful woman the young scientist had ever

seen. She stood only twenty feet away, with her hand against her throat in an attitude of startled surprise. She had

like just stepped from bebled a piller of fee piller which had kept her from seeing him tool. before. Her small, shapely from were skite, clothed in a close-fitting jucket of size rest white from and a fairing skirt of the same fired material, with short Eskimo boots on her small feet. Against the soft while aghering the shape of the shape shape shaped ways.

d waves.

Her lips made a small, surprised "o" and the blue eyes were opened wide.

From a door behind the girl burried three men. One of them was tall and

three men. One of them was tall and broad-shouldered, with a short, clipped board. But he was white and attended board. But he was white and attended power of the short of the short gaze. They burned below his crapp black bross like chips of green fare. They were filled with histe and vengenene. Suddenly his hand slid beneath the gray smock he were and irrhed a near free.

The shocked anthropologist was too startled to move. Through his weary body Sowed a sudden Bood of Inertia, and of the desire to give up. Three days of dighting stow and its eand blinaned, two days without food, had not perpared him for the rapid-fire trend events were taking.

As if time had heen slowed down, he

saw the black-bearded man's finger tighten on the trigger of the pistol. He stood stoically awaiting the roar of the gas and the smashing impact of a bellet. But the ballet was not fired. Between them a small, white form flew. The girl acreamed, "Stop! Maybe be's

Kane swayed a little. He saw the hammer of the gun pull back, inexerably. Then the great cavern seemed to explicte, and he was pitching down into blue depths of glacial ice....



DYNAMIC Science Stories CHAPTER II face, and a short, stocky man with a beydiy hearded face and a completely

BELOW THE POLE

▲ FTER a long time Kane's mind

A seemed to climb back to the things of reality. He had so desire to spen his cyte, for he was tired clear through. When finally he looked around him, he saw he had been moved. The room he was in year small, had carved from lee as the cavern had been. He got one elhow heneath him and forced himself up.

"How do you feel?" someone asked quietly. It was the soft, friendly voice

you can est "

of the girl.

He whirled to see her standing pear
the head of the cot he lay on. There
was does concern in the deuths of her

durk eyes.

Kune shook his head. "Weak," he muttered. "And hangry/" He said the last with such emphasis that the

the last with such emphasus that the girl laughed.

"I was expecting that," she told him.

"If you think you can get into the next room I'll fix you all the him and eggs

Ham and eggal. George Kane was dragging himself from the hed in a secoud, a stearing vision of the food before him. He strode after her into the small dining room. In a few minutes he was seated at a long table stuffing himself with the warm, vitalizing food. He was too starved to worker at these

deliracies as far morth as this.

While he ate, the three men be had seen before—including the one who had been intent on Affing him—came in and sat near him, watching wordlessly.

Kane looked them over while he ate.

The first man seemed to have cooled draw considerably. His accression was

cold and hoetife.

The other men consisted of a long,
hony individual with a sount, white

hald head.

The scientist's eyes kept coming back to the thin, cruel face of the man who was obviously the leader. There was a

tamiliar cast to the high cheek-houses and the sunken, green eyes. And the way the dark hair was husby at the dides and nearly flat on top struck a responding chord in his memory, at When at last he laid down his fork

and pushed back his chair, the other spoke, "Be good enough to tell us who you are," he clicord.

you are," he clipped.

Kane shot him a hostile look. "I'm
George Kane," he said shortly, "I got

George Kame, no said stortly. I got separated from my party two days ago, after an expedition to Prince of Wales Island, and I was lucky enough to somable on this place. Now maybe

you'll be good enough to tell me why I was almost greeted with a bullet?"

The other shrugged and a blink smile touched his lips. "We have enemies."

he said simply. "In the surprise of secing you here, I mistook you for our of them, I must apologize for the rude reception you received. But that is finished." He pestured at the two mennear him. "Villers and Chilli, my assistants." be introduced, without turnsistants."

being his head. "I am Henry Cameron,
and this is my niece, Sharon."
Henry Cameron! Kane caught his
ing be talt. At last be remembered the man,
thenry Cameron had received the Nobel

odd. Henry Cameron had received the Nobble Seek. Pite three years ago for his work in a seek. He had made the first revoluhed time of a grocess by which seed and me into could be unspected to a polar into could be unspected to a polar polar countries, and the polar polar countries, and the polar polar countries, and the polar countries, and the polar countries, and the polar polar countries, and countries, countr

mer magnets could do the work of an

electremagnet, and obviste the neces-

UNDER THE NORTH POLE

sity for expensive current. Comeron had made millions in two years.

CAMERON'S abrend eyes caught

CARLERON'S sureway
the recognition that lighted the
other's face. Quietly he said, "How
soon can you leave?"
"Uncle!" Sharon Cameron broke in.

"How can you ask that when Mr. Kane has just recovered long enough to eat

one meal?"

Camercu's eyes avoided hers. After a momént he shrugged, "Very well. I think after two days you should be sufficiently recovered to go on. The storm

will be over by then, and I'll see that you have food enough to carry you to the settlement." But there was a veiled menoce in his eyes that the younger man did not miss. He nedded at the girl. "I'm sure my niece will be glad to show you around."

Followed by the other two men, the tail Cahill and stocky Villers, he strode out.

Sharen tried to explain. "My uncle

is very—brusque to strangers,* also stammered. "I'm sure you'll be welcome to stay as long as you like, after be leaves was better."

Kane get up and took a deep beeast. The strength secured to ecce using the late that the strength secured to ecce using back iten his body as the warm feed inought a welcome glow to lists. He stood tall and erect, a rather leady figure. His eyes were whimself as he said, "If he shoots at men when he's being brosque, Td hat to get him mad! He might not miss, next time."

A smile noted the seit's rich line.

Then, turning, she said, "Perhaps you'd like to see more of this unearthly place you've stumbled into. Come

along."

At her beels, George Kane stalked out through a short hall into the immense cavern.

"Tell me one thing," he said ear-

"Tell me one thing," he said earnestly, as he caught up with her. "Just 3

thad what and why is all this? Who built is, or carred is, and what does it do?"

"To begin at the first question," ught Sharon smiled, "the caverus were out the out by a tribe of Eskinson my uncle thou knought here to do the work. I never saw them, because I've only been here in. a menth myself, Uncle sent for me just consider the way the myself, Uncle sent for me just consider it was festigated that on whet his is.

85

—it's some big oil solveme be has on.
It seems be discovered an immerses
parket of oil up here, and he's built his
own plant right over it. That's the
pamp over there," she went on, indieasing the builty mass of machinery.
"It's—I don't know how powerful, but
it draws up oil from about eight miles
"Wish unites!" Kane anaphet.

"Yes, The pump is especially built to if do the work."

is?" Kano asked, "Some sort of still?"

Sharca smiled and walked over to
the Gargantum coil of greenish steel or
whatever metal it was. It looked like
some monitrous entlood clircular stairtease that wound down into the bowels
of the earth. "That's the one thing I

can't quite understand," she told him "My uncle says it has something to do with distilling the cil." "It doesn't look like any..."

"It doesn't look like any..."

At that moment a step sounded bebind them. Villers stord close to Kane.

a crafty smile on his fleshy lips. His squat, uply body was relaxed in easy self-confidence. "Miss Comeron is right," he said, "It is a special process of Mr. Cameron's for refining the crude perfolum."

A SUDDEN impulse came to the other man to call him a liar. Obviously there was something hidden here Cameron didn't want discussed.

He stifled the desire, and asked, "When did Cameron become interested in oil? I thought he was a steel worn?"

"Did you?" Villers said, and left it there. "I was afraid Miss Cameron might forcest to tell you one thing on I'll let you know myself. You are at liberty to so anywhere you like in the upper part of the structure, but Mr. Cameron prefers that you don't go any farther past the coll. The machinery in the interior is rather complicated.

You might hurt something-or get burt vourself." With that he strode off Kone wortched him on frozening and

then turned to the girl. "If you don't mind," he said quickly, "I think I'll shave and clean up."

Sharon said quickly, "Forgive me for not asking you. The room you're to use is the one we brought you to after

this morning. You'll find everything you need there." With unconscious pervousness, she brushed hostily at a curl that strayed over her smooth fore-Kave mumbled, "Thanks," and left

Back in his years he took a lover time shaping beating the water in a little alcohol stove. His mind numbed over the strange world into which he had dropped. He was sure Cameron was no more interested in oil than he was and yet there was little doubt that the machinery in the ice hall was to pump something from the ground. The thought came to him that for a man

who had made the remarkable diarouery that he had in steel he forest it in a burry. A alimmer of suspicion came to bim that this might revolve about the

the new rootal was not uneking out so well. After a year of use, the metal seemed to lose its remarkable magnetic power and require further processing by Henry Cameron's Inboratories-at Cameron's own expense. But-they were only rumors. They might be completely unfounded

At last, shroroing be decided his imagination was carrying him away. Comerce's evolunctions were nechable true: He was here to drill oil, and naturally iraleus enough of his discovery to be quick to challenge any stranger who entered the caverns.

Putting away his shaving things, Kane prepared to employe the place further. Perhans a look around would justify him in thinking definitely one way

or the other. He found that the back door of his room opened on a hall be had not yet been in

Aimlessly, he wandered down it. until be wasn't quite sure where be was. Seeing a door alar, he shoved it open and walked in. His mind was so taken up with the mysteries around him that he almost stembled over

Sharon without seeing her. She was huddled in a chair, her arm flong over the back of it and her face pressed into the bollow of her elbow. Her slim shoulders shook with sobs. A soft sound of coving of miserable heart-woone cruing same to Kare

He strode forward impulsively. He was touched atrangule by the girl's grief, more so than he would have imagined a girt's crying could affect him after so short an accusintance.

"Here, here!" he said warmly, "It can't be that had!" Sharon started and jerked around in

the chair. Her face was white and tearstained her lower lin enjoyeing "Oh!" she easped, in a muffled little voice. "I --I--/ Kone went closer to her. His face

looked young and rusped, and yet very kindly, but there was a death of feeling in his expression that was not all pity. Wife it is many of your broduces " he told her, "just say so, but-if I can help, I wish would let me."

CHARON CAMERON looked away and stood on. She went over to

UNDER THE NORTH POLE

where a small packing had lay open For a lone time she stared down at it. and then suddenly she turned and burst out helplessly. "I don't know what's the matter. If I did, perhans I could do cornethino about it But-2 she shrugged despairingly, "I do know my smele isn't here to drill for oil. It's

something a lot higger than that."

Kane grinned, "I'm glad there's somebody else who thinks there's something rotten in Franklin's territory. I thought maybe it was perves on my part." Then, more seriously, he asked, "Tell me-just what do you know about your uncle's affair here?

Do you have any actual reason to four him, or marely intuition?" Sharon stanced at the hag she had been necking. The got encock fatuitions at least to be ready to risk my life getting away." she said decidedly. "For stood all of this 'unofficial cars-

tive' business I cam. Just outside the tunnel, in the snow. I've get enough concentrated food tablets I stole from the surely to last a month." Kape podded slowly, "If I may use such language of your kinfelk. I think Henry Cameron is trying to rult the

well-known wood over over even " "You certainly may." Sharon come back. "I never could understand his wanting me to come here arrowsy. Lately I've decided why he did it. He probably decided be'd told me too much abelst his affairs here, and wanted to keep me from telling are more by staying down in civilization. He told me before that he was going to Victoria Island, and now be keeps testing me to find out if I told anyone else.

Unfortunately, I didn't," For a minute Kane looked thoughtfully at her. "Just where are we, anymoney he wanted to know at last

(Then) you hasted? the old school in surprise. "We're on or under-

"Roothia Peninsula!" casped the prientics "But that means we're under the magnetic North Pole!" CHAPTER III

Over Husensen Dean Mass

▼ KNOW," Sharon shruowed. *Ros Pin sure I don't know what it all means. The whole thing's a

mystery to me." Kane was silent. After a while he said. "I'm thinking the only place we can find the answer is in the part of the casern we're not supposed to go into-

Which adds up to one thing-Tm going in there right now and have a look for "Oh. you mustn't!" the girl cried. laving her hand on his arm. Her agure eyes earnestly probed the depths of his.

off he county you there, he might kill von. There's something-something he's guarding with his life in there." "Just the same," Kane said finally. "I'm convinced that it's no less danpercent to wait here than it would be to

po into the forbidden rooms. But I want your remains that you won't try to escure before I set back. Then, if I find Cameron is an crazy as I think he is we'll no together." With the girl's promise still in his

ears, he threaded his way to the other section of the cavern in the elocial ice. He chose the narrowest and least used halfs to no hy, anxious to avoid Cameron or his assistants. Everywhere the light seemed even and soft, leading Kane to suspect some sort of phosphorearent material fused into the ice.

Suddenly, he rounded a narrow turn and same into a holl about holf as lesso as the first. The remodies in mall-

gleamed coldiv about him. In the spacions room there was a battery of shin-

DYNAMIC Science Stories FOR the whole story was right there

ing instrument panels down one wall, another wall lined with faintly humming machinery, and a series of doorways on the other two walls.

Kane shot a look about to make sure be was alone, then slid into the room, Swiftly he went to the instruments. He found after a ordek look that most of

them were unfamiliar to him, consistine of pressure gauges and tachemeters

Then, down the wall, he discovered a freeted glass panel like a scanning screen, set flush with the ice wall. At the lower corner of it was a small red button. Kane besitated, and then his curiosity got the better of him. His fin-

per went out and pressed against the button. Instantly the board lighted up. Kane

proprieted it as a detailed geologist's map. There were various colored strata of ice, earth, oil, and other formations. He bent closer, his line tight

aminst his treth as he studied it. He caught a breath. The labels were frequent-and in

the brief words the young scientist read something that made his heart hammer and his pulses throb in his ears. The discrem was accurately scaled so that be could read it easily. About seven miles down there was a thick layer labelled, "Magnetic Iron Deposit!" Kane's eves flashed on down to the oil greats. He found that the level of oil in it was indicated by a movable black line, and that certain marks denoted the level on other days. By them, he read that in the last six months the oil

had been reduced from a depth of one mile to about a hundred feet? His mind roard. He saw how thin the layers were between oil and magnetic iron deposits and between oil and the space below it-which seemed

to be merely a bottomics chasm! All at once Kone stanged back and maned "Mametic-why didn't I sures it!"

ell were drained from below the deposit of iron, the slightest jar would send the two-mile thick layer crashing down for into the bowels of the earth. to come to test perhaps twenty-free miles below the surface. And unless be was very much wrong it was that layer of magnetized iron that solved the agrold riddle of why compasses point north). The areat body of Iron would

on the scanning screen. If all of the

exert a termendous attraction as far with as the equator, where some similar deposit must cause the Southern Magnetic Pole attraction Abropely, George Kane whirled from the glowing screen and started

acress the floor. There was no time to lose. He must now find Cameron and the others and stop them somehow, before their disastrous plan could take ef-

And then, right in the middle of the floor, he irrived to a sudden stop. He stated down at the ice floor with an ex-

pression of utter borror on his drawn In the ice beneath he could see the bodies of scores of men! Their fea-

tures were plain in the light sufficient them Pain desperation were frozen into their countenances. Staring eyes struck up at him in a way that froze him with horror, and wide open mouths normed about to shrink for help. There most of them elutching pickages or other tools. All of them were Fukimos. Before Kane could recover from the shock, a footstep grated in back of him Someone sold icity, "You find the bodies

interesting. Mr. Kane?" The anthropologist whirled, "Cameron!" be lerked. And then, in a flood of anger, "So this is why you wanted

no one in here! You wanted nobody to see what became of the poor victims whose was bired to build your ice palace

spair, he watched, through thick ice, the

The green eyes blazed under his shaggy PH fire!"
hrows, the only truck of emotion in his
countenance.

"You are very discerning," be
breathed.

by.

UNDER THE NORTH POLE

breathed.

"Yes—discenting enough to know
the lissues scheme you are trying to
work here!" Knee scouped. "You're some horfelde end than I had pleaned,"
planning to cause the great magnetic
iron deposit that you've discovered to feet on a now death in a block of loc—

drop so deeply that it will be ineffectual with only a small base leading to your mouth to sustain life-uptil the ice do it, Cameron? Why should you want crusbes you. Within a few hours, you to throw the compasses of the world will have the doubtful pleasure of exoff, to rule the most valuable means periencine it. But not before you see that man has of guiding him in difficult something you can carry to your death places?" with you." He restured to Villers. "Take him to the room." "Because," the steel man grated, "I intend to recoun my losses of the last Without a chance to raise a hand in

year and statein an income no one can his own behalf, he was prodded out of ever take from me. It has cost me a the room by his enord and led away. fortune to recharge the metal I sold. "The morn" proved to be a small cu-But since then I have found why it bical strace in the floor with a bure failed. Now I'm going to be naid back. chunk of ice for a door to it. Kane was I'll be paid back for all eternity. Berudely should into it and the door slid cause while I are alive the world will back into place. He saw at a glance how to pay me to sustain a magnetic that there mould be no escenise this pole, and after I am gone-the world dunceon. The walls were too slick for him to ascend to the opening. In de-

"Tarir gyro compasses are useless in most cases. So they will be completely adjusted to the completely the complete with the complete with

A thousand degrees would charge it permanefully. But they won't know that —because you'll never live to tell it!"

As the full import of the other's
OR two bours he was kept there,

works struck tim, George Kare sprang forward and erashed against kim. But die werde state of the structure of the men were carried outso the hard less greeted his footbardy streeps to so fore. Karels first chebbed into the same Canacono, for k had changed his other's like as he sought to overyower so with discolar call convocer with his best with discolar call convocer with his best with discolar calls are convocated to the same conservation of the same convocation of the same with discolar calls are convocation of the same co

thought; one error had resulted in his being thrown here in this freezing-cold cubicle to amoit death

And while he shivered here in the semi-gloom, Cameron and his aides were perparing virtually to ensive a world. Whatever his plan was, Kane knew it was almost at the culmination point. The other's statement that he would not die, until he had seen something he could remember as he died.

proved that.

And yet, with a whole world about to be plunged into shavery so Heavy Cambe plunged into shavery so Heavy Camworrying far more about Shavon than be wan about the world's millions! He conjused up her face and her trim Ritle far-clafe figure before him, and then face to make the case and the ritle find and the face to more of terror. What did Cameron have in store for her? He was to supplied as a man to risk letting her off all the heavy about his work. Some on the complete of the supplied of the complete of the supplied on the complete of the comple

free men from the necessity of his presence in order to process the coil.

Kane's mind rebelled at thinking of what might happen to her. He was far more worried about the girl than he was about himself; he found, during those analous hours in the dungeon, that she had come to mean a very reset.

Mare what seemed an etermity, Cahilli and Villers returned and owing the black of ion from the trapelor. They lesswert a rope to him and permitted his to charaker out. Caldill stack his ext, hosy face close to his and respert, "We've got a special treat for you Kane. Cameron decided it would be cruel to make you die alone. He's gotier to be a he will so with the cruel to make you die alone.

tred. He clenched his fists and hit out savagely, "If ever a cowardly, murderous pack of rats lived..."

mouth, cutting off the angry flood of words. "Save your energy to fight the the lice block when it begins to crush you." Together they houled him along, e a Swiftly he was carried hack to the ane great hall in which the pump and coll dien were stationed. Saddenly Kane realhe ince that the pump was no longer through

Villers' fat naw slanned across his

ited that the pump was no lenger threabing. He geossed the reason—that the huge oil pocket was empty at last, leaving space for the mass of iron to tumble into the howers of the earth. Cameron was standing near the coll, by a black box fixed in the wall. Sharen stood near laim, a small, frightened figure. Kane was showed to her side. Impulsively be reached out and grasped below. We have the collection of the collection of the below. We have the collection of the collection of the late of the collection of the collection.

e Kane was showed to her side. Impolisively he resched out and grasped
her hand. Her answering squeeze
warmed his heart, and gave him the
courage to smille. His eyes promised
her hope that his lips could never have
il uttered, for there was only despair in
his heart.
d Now Cameron strode before them,
this face tirrombart and cruel, "One

semall thing remains to be done," he smilled. "And when I press that switch it will be finished. A charge of dynain mite now rests far down in our oil line. When I send it od, the iron will drop —forever."

5. Kane watched his white face, study-

ing the green eyes that hurned coldly.

"Tm warning you," he began, "that if is you go on-..."

"Condemned men are in no position you go you warnings," Cameron snapped.

"In your position, one reauthy releases.

But you two will not even have the setisfaction of doing that. For I am going to finish my work before your very eyes, and them—then you will go to join those Eskimos you were admiring." Sharon's eyes flashed to his. "What—

Sharon's eyes thished to his. "What what does he mean?" she asked.

GEORGE KANE guessed that she had not been told what was in

UNDER THE NORTH POLE

store for them. He said: "Nothing that will concern us. Not if he goes on with his plans, at least. Cameron, if you weren't half crazy with ero, you'd realfee what you've doing."

"I realize fully," the other chilled. "I haven't spent a year laboring in this hole without knowing what I was about." He broke off and strode to the black has on the wall just beyond the huge green coil. He raised his hand to it. He flushed a bleak smile at the two men who stood at either side of the captions their grow trained on them Slowly his fingers commenced pressing

Kape lurched forward with a warning crowding his lips, to be brought up hy his two guards. "You fool!" he shouted. "You'll being this whole place crashing down if you so on. You'll kill

yourself as well as the rest of us!" But Henry Campron's hand continued steadily to close the circuit that would set off the charge of dynamite miles below them. His lips parted briefly to counter. "Your rayings are useless. Kane. I know enough of geol-

ony to be sure that the ice lawer is far too thick to crack " The hissing breathing of Cahill was sibilant in young Kame's ears as the hery side hunched forward. His chalky white face was chostly in its

drawn intensity making his eyes onpear like hollow sockets. At his other side Villers strained ahead, his fleshy lips pursed. And then Cameron's body stiffened as he drove the knife switch

was heard. There was a faint crackline as the current was closed, and then the hall became as soundless as a catacomb. For seconds, the five who waited hune motionless. Abruntly, through the solid floor of ice, a faint tremor was felt. The gigantic coil onlyerod a little, like a chiming spring that

has been struck. Then a low rumble seemed to sound from walls and ceiling, and the floor ouivered slightly. Over Cameron's face, pale now, came a frown of nuzzlement. His hand came slowly away from the switch box. His eyes sought those of the others, but his tight lips attered no sound.

And then a wave of violent tecking passed through the ice cavern. From the ceiling came a fine mist of ice chips. Long lines of cleavage shot glogageting. through the floor under their feet as the miles deep ice cracked. Shrill raspines filled the ball as account ice was ringed

The cavern in the ice was crashing The tension broke, Cameron shouted something and darted to the coil, braced his body against it as though to

stop its mad quivering. Cabill and Villers ran to his side. The three of them. like children who seek to hold back a breaking dam, threw their weight against the tors of green steel that shook and iceked. Kane turned to the girl, who was frozen with fear. "We've got to get out

of here!" he shouted, over the thunder of sliding ice. But within him he held no hope that they would ever climb from the crushing death that was closing in on them.

A CROSS the cavern's floor a white A line shot, tracing a path between the man and girl and the three who fought the coll. Down its length a great chasm opened up, ten feet wide. Kane In the great cavern of ice not a sound was left on the very edge of it, staring like a sleepwalker into the hipe depths that vaward before him. His face hlanched as he exped at the bottomless wedge that slid down through miles of ice. Then he whirled and graved the riri's hand, "Come ont" he cried. "We've got to make the tunnel before we're cut off!"

He balf dragged Sharon with him as he emosed towards the entrance. But even as they started ahead, a deafening roor sounded close behind them. Kane soun about to see what new peril threatened them. His eyes widened as

92

he watched the scene across the chasm. The coil had turn loose from its base two miles below and with ominous acceleration it was sinking down. The ice screamed as it rioned through. Cameron and the others resied buck from the coal. Cracks shot through the ice

and ran back towards the others them and the hope of safety. But there was no other way out for them now. Already the ceiling was raining large chunks of ice down on them, and in a few seconds the whole place would be filled with fagged blocks of crushing

ice. With a desperate leap Henry Cameron launched himself over the suping canyon. As one man, the others flung themselves at the opposite side. Kane's stomach felt cold and sick as he saw them hurtle over the oit. Cameron's shoulders were hunched, his arms bent, hands clawing, as he stated down at the death miles below. Suddealy his feet struck the other side. barely touching the edge. He tried to take a step, twisted, bent backwards as the slick ice failed to give him footing

His hands clowed madly at the air as his lone body testered back. And then, From the cold depths a chilling scream ricocheted up at them. filling the covers with mad echoes. Before the sounds died. Cahill and Villers crashed were too frozen with fear to utter a sound. Not a whisper came from the dark void after the echoes of Camer-With a violent lerk George Kone

on's shrink faded away.

shook off the cold fingers of horror that chutched him. He whirled and sweet up the girl in his arms and dashed for the tunnel, just as a thousand-nound block of elacial for crashed to the floor on the anot where they had stood. Like a drunken man be stumbled and

reeled. The floor beaved beneath him. threatening to throw him down. The stender nillars snanned fike foldes A rumbling sound cave evidence that the off markingry had dropped through the floor. Kane's whole hady was a tiphe mass of humched nerves. He fought the terror that would slow his less down and doors them to a horrible death

The exit loomed up before him, then he sprung through and was dashing for the iron ladder. The walls were frosty with spider-web lines that hetrayed their crumbling. It seemed minutes that be stronged towards the black hole that would mean salvation, though it was only seconds. His ears rang with

the rumbling thander all about. All at once the ladder was before him. He set the sirl down and somehow set her started up it. Swiftly be followed. The ladder seemed a thing alive heneath his hands and feet. Lurchines and shakings threatened to disloder both of them. But feer cave strength to their muscles and carried them on

A FTER an eternity of climbing, the A transfoor loomed before them and Sharon's hands thrust it upward. The George Kane followed her out into the snow. Absently he noted the little nile

of provisions the girl had brought out early that day. The rumbling had almost storoed now. Only faint undulations of the ground evidenced the hell that had taken place below. Kane's less were

weak as he turned to the cirl. She was crying softly with relief.

Somehow the young scientist's arms "The original one was, all right. It's stole about ber shoulders and drew ber about twenty-five miles down, now, and

HINDER THE NORTH BOLD

near birn. "It's all right now," he murmured. "The cave-in won't come any farther. It was just the ice that was affected. With the food you brought out this morning, we can get away from this place and reach Spence Bay in two days." After a moment the girl's voice, muf-

fled because her face was buried in the hollow of his shoulder and neck, said: "But what hannened? I thought he

said the ice couldn't slip?" "It wouldn't have." Kane said. "excent that he forest something-the friction that would be produced by all that dipping iron. The friction created tremendaus heat and melted the lower ice. That brought the whole place down-

And when that hannened-Henry Comerror's plans were spelled. He failed in "You mean-" Sharon's face tipped

up to his querulously. "You mean the

thing before he imprisoned me. He told me be'd discovered that all the metal needs. In order to have the magnetism fixed, is to be beated up to about a thousand degrees. Right now that hure coll of his is slipping down and heating itself for above that! In other words, only a few hours will chapse before the magnetic North Pole is restored for good."

useless. But Cameron told me some-

Sharon was allent. After a moment Kane said, with the first smile that had touched his face for bours. "Personally. I wouldn't mind standing like this for the rest of my life, but I'm afraid we'd freeze. We'd better start

for the settelment. We've a long walk ahead of us." The girl's blue eyes smiled up at him, with no trace of the horror that had drenched there a short time son. "At least," she said softly, "it will give us

READ THE GREATEST SUPER-SCIENCE NOVEL WRITTEN: 70.000 WORDS! JOHN TAINE'S "TOMORROW" IN THE NEW ISS UE OF MARYEL SCIENCE

Answers to Questions on Page 79

1. Microscopic signs, one of the simple drift-2 A solar year to the period (of 365 days, 5 hrs., 48', 48") between two passages of the on though the came evenes () noises for definition alone). A sidereal year, the period which the same takes to return to the same atnas (A paints) to longer (2 paints) by 20' 18"

The procession of the opprenant chartens the \$ A simple form of sungest (6 pecats), conthrough it (6 points more) A The internal between two votame of the

hrs. and 44 mans. (4 points more, 1916 days or 29 days and 15 hrs. acceptable). 5. Any type of thermometer for messoring inver temperatures than the ordinary marriery

STORIES, DYNAMIC SCIENCE STORIES' COMPANION MAGAZINE, ***. 6 A symbol used in physics, ecceleting of un armor with a shaft of fixed hearth

stanfishes (I prints).

8. An allosso in a person, around or plant wholly or partially because it color because of

facting power (4 poests), expressed in per-cent at salar light reflected (4 points more) from a netwin of muents bodyes called plusescends (6 points); moving in placet-like confessed without extreme heat (6 points 10. None (2 points). Chlorophyll is the green coloring matter contained in plants ()

points), the substance through which, with light, plants manufacture food from earhor directs and my (A nogate mose). A oblicenoter is an instrument for detecting the chlories in a communed (4 refets).

THE STRONGER

THRILLING FEATURE-LENGTH NOVELETTE OF INTER-PLANETARY HI-JACKERS

the low-hanging clouds, only to rise again in wises of steam as it struck the elements sidestalks. From the fetid green Venusian inneles that encircled the rown drifted brightly colound enough like hits of confetti. Book ion Nahthy in the thick reist. Doub to anyone whose lunes they entered, for the spores feasted on human tissue. Multiplying with frightful rapidity they choked the lunes, the blood stream causing swift, sure death,

lim Weston standing under the overhang of a grey crystalloid building. the cafe's tiny spore-lock. After a five adjusted the spore-mask that covered minute soaking in cermicide-baden air.

NEASELESS rain drived from Onick-motion founit words menuted from between chinks in the sagging masource forced apart the marries stones of the docks. A few countailed warecovered administration building several slatternly, patched-plated tramps, lying like buge grey slugs in the slimy mud of the landing field. The only signs of life about the space-port emanated, in the form of tawdry multiphone music, from a little cafe sandwiched between two warehouses. Iim made his way toward it outled open the door stepped into

A speculity from Years to faith was what Jim Worken wasted — what he get was a boughaled highes a Mary-bound rechet, as a manker of Saturaine Start's above-tree. And whose they consided on Mary' red described, he have not a graphics of the fretuneistical year. this farth-men showed a Saturales bully that as any placet it's guts, out also, that makes

his mouth and nose, eyed the opaque fog with a disconsolate shake of his It made a man feel as though he had been tossed into a signat's cauldron of stewing spinach. Jire's hands touched

the heavy lead container strapped to his belt. Twenty ounces of radium, his roy as chief engineer on the Iorian nemoduct inh. Engage to take him to Earth a hundred times over . . . and he was forced to stay in this steaming hell-hole until a terrestial-bound ship made port! Which might be months, with the Vermsinn arain trude on slock of late. Two years fighting mud, gravity, and methane gas on the cony surface of Jupiter, the moddeningly long Joylan-Venus space trip, and now the prospect of months on this green bot-house planet. Jim sighed dismally, set out in the direction of the space part. Perhaps the contain of one of those rusty freighters now unloading at the darks might be

persuaded to make this trip to

Earth

he slapped the dead spores from his cost, stepped through the inner en-

The tayern was worse. I'm thought. than even the dives of Tuniter. Smoke from a dozen strange parcotics dimmed the light of the radite lamps: the toosweet odor of Venusian thole minuted with the small of Mortian tons and Ton-

restrial whisky; pallid, overly made-up women, all but nude in their sheer cellosily deeper, out hopefully at tables sipping apparently endless plasses of (April The room who limed the how were for the most part space-bands, tiny redskinned Martians, squat Joyians, and nondescript waifs from the asteroids. the moons of Saturn. Tim stepped up to the rail, beckened to the hartender. "Where can I get information on those freighters outside?" he demanded.

"I want to ship out of this areen hell." Before the hartender could apower a heavy hand fell more lim's shoulder "Ship out?" a deep voice becomed "You've come to the right place led Time

Slane skipper of the Astric. As soon The arrace root was a desolate sight

as I can muster up a crew from among these rats, I'm beaving for Mars." Jim glaned up at the owner of the deep voice. The man was huge, nearly seven feet tall and amaringly broad in proportion. His arms were long ger-

seven feet tall and amazingly broad in proportion. His arms were long gerilla-like, and the swent-souked shirt, clinging thmply to his skin, rewealted great tippling muscies that spoits of inburnan strength. The giant was, to judge from his narrow, reddish eyes, his absolutely haldess bead, a Saturnian, his neck still hore the reddish chafe of a Sventson helmet. Most significant of all, his writest were circled with while

of a Svenoon helmet. Most significant of all, his wrists were circled with wide silvery scars, scars that could only have been made by the tightly welded fetters of the Saturniza prison colony. Clearly the hig man's past had been a cleacered one. "Well?" Slane's coarse features

ward appearances don't hold for other nor men. You'll find the Airric's atthy craft and me a thoughtful skipper. Come, lod, I need from to replace those of my cree who were knocked off by these blasted Venusian spores. Voir's a his crawary'. — his gase sweep jim's sheader, wity frams. — "bue beganes can't be choosers. We'll skip articles, all fair and square, and you'll get fifty Airoit when we hand on Mars."

JIM eyed the man narrowly. There was something in his tone, a custoing necessarily seems that did not rine quite

"Mars?" he shook his head. "Earth's my destination. And I didn't figure on weeking my way. Small difference hetween Mar's red-bot deserts and this fever-ridden pest bole. What I've been dreaming of these there years is the cool sweet fields of Earth."

"A passenger!" Slane's red eyes because mere alles, "That smarks of money. Earth's none too healthy for me but now my little fraingl but now.

his spore-misk from the proceed spohis spore-misk from the proceed tothe ward the deor. "Hardly a matter to arry discuss in this thieves nest. Outside di in on the decks we'll have privatey. Come goralong." it. Jim hesitated, reached for his mask. aled No harm in hearing the man's proposal. It is Naddine, he followed the Saturnian.

through the doorway.

The space port was still deserted, dismal in the steady rain. Some twenty
yards from the little tavern Slant
to named.

here for a price " He nicked up

paused.
"Well?" Jim's voice was medled by the thin mask. "What's the proposition?"
"Just . . . this!" Slane's huge fist

of the Statembian prison colony. Chearly

""jest ... this!" Sland's long fit
the hig man's past had been a checkend one.
"Well?" Sland's coarse features
""Well?" Sland's coarse features

""Well?" Sland's oarse features

""Well?" Sland's high coarse features

""out in the carbinant flows on the jaw.

"could be not confused in the confused from the company of the

by The first thing that Jim Weston any,
en opening his yeas, was a many, river,
en opening his yeas, was a many, river,
en opening his yeas, was a many, river,
to that he was hid there by some terrible,
provisible force. And then a regularentitle that he was hid here by some terrible,
the was on sugged through his cloudy brain
He was on a spone ship, primed to his
till bunk by the force of the vessel's occulentitled. Him key back wealkly, tried to

piece together the puzzle.

It was perhaps ten minutes before
the ship's speed became constant and
the force of acceleration slackered, died
away. Jim was just struggling into a
's
sitting position when a cloor slammed
and Slaue entered the room.

"Still lolling in bod?" The giant's
voice was barsh. "Bah! You carthmen are all weaklings! Up, and get to
il work!" He seized Jim's atm, dragged
him from the bunk.

work!" He seized Jim's atm, dragged him from the bunk. Weston shoul for a moment, unstendily, shools his head in an attempt to clear it. Suddenly he noticed a heavy head container stranger to Slame's helt. "My radium!" he mattered. "You ... you've stolen. ..." "Ugly word, stolen." The Saturnian laughed mockingly. "The radium's my

laughed mockingly, "The radium's my fee for taking you to Mars. Of course, you'll have to work, with us shorthanded. A mon the chipping rust'll make a man of you."

Weston stared contemptrously at the

Weston stared contemptuously at the captain of the Astric. "Yes," be said coldly, "Just what I'd expect of you. A stupid Saturnian

I'd expect of you. A stupid Saturnian bully, with the brains of a. . . ." Slane's hand, open-palmed, smysbed across Jim's lips, sent him spinning

across the room.

"Maybe that'll show you who's boss on this ship!" he bellowed. "Go forward, you lily-livered terrestrial seam,

seard, you filly-livered terrestrial seam, and report to the mate! Lively, now, or I'll break you like a matchstick!" He grinned, booking his thumbs over his beit, and shot a stream of him teel in the direction of the sandhor. Less

planted wide, chin thrust forward belligerently, he glared at the earthman. "I'm strong, see," he grated. "Stronger than you are any of these rate

"Stronger than you or any of these rats aboard! Just remember that!" Jim Weston looked the blg man over, heale into a unition barsh lunch.

"Sure," he murmared. "Sure. The stronger. . . ." Still laughing, he turned, made his way forward.

The recks that followed were a crude delirium to the members of the Astric's crew. Rottling food, fithly quarters, long hours of toll ... and Slare. More than anything else the presence of the capsala tortured them. Here a half-starred wereth, pussing for a moment after hours of chipping in cramped

nati-statived wreck, passing for a moment after hours of chipping in cramped positions, would hear sudden ceths, feel the Saturnian's thorizon-soled boot crash against his skinny chest. Here on emachated other, complaining to his matter of the stricking food, the leaso.

min would taunt them, call them cowards, my weakings. Only once had there been success. a show of resistance to his bertality; a show of resistance to his bertality; as the most bertality; and turned on his, brandhiling a beary slice-bar, the Ten minuses later the Jovian's mangled body, hack hrickes, arms difficated, bad what been tossed from the six-back. And minimal stans, distincted beard minimal stans, distincted per properties.

self lifted by berculean arms, shaken

until his teeth rattled. And as, whim-

perine, they begged for mercy. Slane

into a hoop, walked scorafully from the 16 castle. Even in shop the men feared ghim, muttering beokenly in nightmares, tossing recibesly about, half-smake, in a dread of his voice calling them to new, sadistically conceived about. Like some huge demon, the captain reamed the spite, distributing his oaths, bis savage blows with grim satisfaction.

DERHAPS it was because he know

Jim Weston to be superior to birm

mentally that Sines singled the earthmentally that Sines singled the earthmentally that Sines singled the earthmentally that Sines to find to

test plan, the most killing too find in

jump sometimes of the control of the

mental costs to device one and in
time all costs, be deviced one and in-

e possible tasks. Cleaning the carbon from the forward rocket tubes, the firelling chambers; shifting portions of the temps back and forth at the capitalit's, fancy; long hours in the near-zero coldof the void, clad only in a light spacesait, patching the plates of the Attric's a hull. A terrible ordeal, yet somehow im second to the second or the second o

a sain, pactring the postes of the Affrez

hall. A terrible ordeal, yet somehow

Jim stood it.

Just how he kept going, he was never
equite sure. His hands were rap with

thisters, his body bruised by Siane's

eel quite sure. His hands were rap with out blisters, his body bruised by Siane's on well-directed kicks, his every muscle has ached in weary protest. There were see times when he felt that he seared lie

personway, shouted along it. down, rest, if it meant his death, Yet SEmporary stational Open forward always there was something that urgod him on some hidden source of energy that was more of the mind than of the body. Through sheer force of will be

kept on After what seemed an eternity of orne days and nights. Mary appeared below them, here, red, ominous, its yest stretches of desert luced by a network of canals. Coasting in on a long short. the Astric sped toward Pridis . . .

called by earthmen Acherosia Palus . . . at the junction of the Bactrus and Acheron carals - Tim was polishing the chromium of the control panel as the ship raced toward the red planet. Slane,

at the T-bor, was grinning. "So " he rumbled, "your cruise is almost over. Von'il admit, no doubt, that

the comforts of our little housey lines have made up for the high cost of the passage. And if such a racgod scorerrow as you should so to the Martian authorities with tales of robbone and hidespeins there'd servet you for drunkenness. Besides, they'll have the word of horest Cartain Stane that

you're space-crazy." lim laughed. That laughter, however, seemed to infuriate the Saturnian more than words,

"By all space)" Slane roared, "None of your impudence!" Lashing out with his buse flat, he caushs lim a clancing

blow on the jaw. Stunned, Weston staggered backwards, crashed into the control penel, Under his wright it buckled, gave way in a tangle of wires, of shattered glass, Blue sparks shot between short-cir-

cuited lead-less under the fierce best delicate wires resited you Tibe a Major thing the obje byelod

lurching crassly from side to side climbing momentarily, then falling, sickeningly. Slane, his eyes bright with fear, twisted the T-har demerately. Receiving to response he can to the com-

rockets, full! Onick, blast you! Lower rockets! Full power!"

lim Weston, disentaneline himself from the wreckage of the controls, peered out of the big glassite observa-

tion nort Poidis the canals, were lost in the distance. The Astric, whirling about madby was dropping like a plummet onto the red sands descrit. Ilm watched the ground lean up to meet them. One second two seconds three seconds, . . .

Suddenly the ship stended berealf or the lower rockets burst into flame. For a moment it seemed that there might yet be a chance. The speed of the descent, however, was too great. With a polintering great, the ship burtled into

the hard-parked sand. A lump on his bead the size of an cer. Iim Weston clambered to his fret. A miracle, it seemed, that be still lived: the ship was a tangled twisted mass of

sureckness a confession of bent beams. shattered plates, and sputtering wires, The pilot room, located on top of the ship and well forward, was the least damaged. I im touched his bead stagerby chanced about A smothered sures from the other end of the room reached his axes. Slope! Boried beneath a beap of wreckaget

Picking his way across the control room. Iim tore at the scrups of mrtal. A moment later Slane was staring up at him, beloksely,

"Transed!" he muttered, "Can't move!5 I'm knelt beside the fallen giant,

The measive T-her assembly was madend across Stane's chart pipping him to the floor Wester printed bareble "If I was one of your kind," be said,

"I'd go on about my business, leave you here. Micht even kick vou around a

Stane's voice was a bourse "Ah!" Slone wriggled free stood up.

THE STRONGER

"No, I can't," Jim said slowly. "I'm not your type! I'll get a lever....." TURNING abruptly, be deeded the companioussay to the deede below. The lower part of the ship was

"No lid! You . . . you

whisper.

can't!"

comments of the other seasonable to finders. Jin crusted over and through a crampled stage of metal toward the engine room. Approaching it, he became sudderly mescarded. The room was a shandles, a shapilar toward. The other members of the crew, caught below at the moment of the crash, but below at the moment of the crash, but about a through the stage of the stage of

the plumper followed the street of retter through a maze of broken crockery. sacks of space-biscuits, tins of meat, All at once be saw its source and bis heart sank. The his water tank, tilted at a precarious angle, was socuting water from a crack in its lower side. Rummaging hastily among the debris. Tim came up with two quart-sized metal containers, filled them. By the time be had found a third bottle, however, the tank, low after the lone weeks in space. was errorty. With a shake of his head lim nicked up the two contriners, the metal bar, and made his way back to the control more Slane stirred at the sound of the

earthman's approach.
"So," he muttered, "you've come
back . . ."
"Yes." There was irony in Weston's

back . . ."
"Yes." There was irony in Weston's
wice; he slipped the red under the Tbar assembly and, using a bit of the
control panel for a fulcrum, raised the
weight.

self. "Takes more than a wreck to kill
"The a Saturnian! What of the others?"
"Dead."
"Good risdiance." Slane chuckled
handed barsely, "Wealtings, they were. But
there were we?"

where are we?"

Jim motioned toward the observation
port. Before them stretched an infinity
of flat red desert, boking beneath a hot
wellow sky. No hill, no tree, no sign.

once more his domineering boastful

of flat red desert, beking bruenth a hot yellow sky. No hill, no tree, no sign ed life broke the straight horizon. Rustcolored asaid, bard-packed clay . . . and nothing more. "Not pretty, is \$2" Slane mopped his ers-like band. "Got now water? It's

ring hotter's mercury."

less Jim handed him one of the metal hotgra, tles.

pris, ties.

In "Be careful," he warned. "The comtank's empty. Only a quart apiece." that Sinne drank deen.

partition is, Jinn suddenly noticed that the floor was wet. Frowring, be dropped the plunger, followed the stream of wa"No chance of repairing the radio, callter through a mase of broken crockery, for help. I'll go below, rustle up some sacks of sonce-blocuits, this of meat, fod to this with us." He turned to

the companionway.

When he came back, Weston was making a rough attempt to shoot the sum. Noting down the results of his observation, he turned to Sinne. The hig Saturuian, in addition to two packages, of concentrated food, head the heavy radium container strapped to his belt. Jim grinned, sardoucially.

CHAPTEI

THE sun best down like a hammer of brass, pounding the two men, the endless strenches of waste land. On all sides there was nothing but the faint black line of the horizon, an occasional cloud of fiviles sand swent

up from the plain by sudden fierce gusts of bot wind, Barren, desolate, interminable . . . a sight that tore re-

lentlessly at men's perves. lim Weston, bis face and arms

burned to the color of raw liver, his eyes half blinded by the place, the windblown sand, plodded automatically forward. Walking, slways walking! Two days, yet they seemed two conturies! That terrible ache in his less, that huxzin his head as though his brains were aholl. And the sun, the damped merciless sunt. He stanced at Slane. The giant, accustomed to the cold ice-floes of Saturn was reeling slightly as he walked. There was a nervous twitching

about his jaw and a wild glint in his little red eves "How much further?" be gasped,

licking his swollen, cracked lips. "Another day. Maybe two." Jim laushed, a hourse cackle, "What's the matter, strong man? Turning soft? You're all alike, you Saturnians, Spoiled by your great strength, by always taking what you want by force. But when it comes to endurance, to a fight against

something that's stronger than you are. you're not even close to us Earthmen. We're accustomed to strategling against honoless odds: we've learned to use our brains. Endurance comes from the mind. Willpower, courage, guts . . . the something that keeps you from lying down and quitting when the going gets tough. And bullies like you are yellow, whine when you begin to feel

SLANE'S bead snapped up at these biting words, as 16m bad hoped it would, and be increased bis stride. But at the end of balf an hour be commenced to reel drunkenly once more. sucking in the thin, hot air with choking sobs. All at once be slumped to one knee, esseing

"Water! Can't so on without water!"

lim paused, eved the shaking bulk scornfully. "Serves you right. I warned you yesterday about swilling the entire bottle.

I've nearly a pint of mine left." "A . . . a pint!" Sudden desperation shone' in Slane's eyes. Lunging forward, he bore Weston to the ground.

tore the water bottle from his pocket. "Ah!" His sun-scorched fingers fumbled chrosily with the cap. "You see who's boss now! You'll die and not bere in the desert, earthling. And I . . .

"Twe been waiting for this." Weston leaned forward, his sunken eyes gleaming intently, "Think a minute before you drink, Slane. Do you know where you are? Do you know which way the Bactrus lies? Aboard the Astric you called yourself captain, but I noticed the mate did all the navigation. All right, Costole Slane! Take the water.

go shead! In an hour you'll be walking in circles, lost! And in a day maybe two, you'll be face down on the sand, begging your Saturhian gods to strike you dead! You say you're the boss! Well, boss, find your way out of Slane hesitated, his eyes on the blazing red expanse of desert. In two days be had seen no change, nothing to vary

the awful monotony of the plain. No difference between the place where they stood now and the places they had been an hour before. It was as though they were on a treadmill, walking, walking, getting powhere. And the sun proditing them with its hot copper beams, and the terrible lopeliness, and the mirages that drew you from your path, disappeared as you ran toward them. . . . Water splashed softly in the canteen as Slane's

"You . . . you're sure you know the way?" be muttered. "My first job was working on the

Martian canals," Jim wiped bis

THE STRONGER

summed, rheumy eyes, "We bad a chance . . . a slim chance of reaching the Bactrus. Now . . . " Slane's fingers tightened about the

cantren until they threatened to crosh it. So Weston knew the way out of this fiery held. He'd noticed the earthman studying the stars measuring the shad

ow of a little stick consulting his wortch He. Slane, knew nothing of such matters. In space robot pilots charted your course, noted your position. But here

. . . All at once the Saturnian dropped the water bottle at Tim's feet, turned away. "Come on!" he crosked.

lim nicked up the bottle, unscrewed

its can, filled the tiny cup with water.

"Here," he said brusquely. "Means to split it with you anyhow. It's going to be a tough pull." It was. Daylight faded into deep, blue-black night and the red desert became a shadowy purple. The fiery run gave way to the twin moons, two aleaming scimitars, slashing the star-studded curtain of darkness. Refreshed by the sudden coolness, the spacemen plod-

ded forward, weary robots, dimly conscious of their own existence. Not until midnight did they pause for a swallow of water, then pushed on, afraid to rest lest they lack the strength to get up, to continue.

With down come the last mouthful of water. By noon Slane was delirious. He complained of faces, horrible, sayare faces, swelling until they filled the entire desert, then durindling away to grey nothingness. Robbling brokenly. he clutched lim's orm. frightened as a child with a fewer. Head bent, even on the eternal send. Wester stammerd on Hours passed. Now Stane was mumbling of green trees, flowers. Jim bung tightly to the giant's arm, did not look up. The Saturnian was going fast. In

another hour they'd both be . . .

ton's prin, he cancred about awkwardly, waved his arms. Jim glanced up, caught his breath.

DACING toward them peross the A sun-swept wasteland was a cluster of dark dots, sharply outlined against the rose-colored sand. Closer and

call for belo. Breaking free of Wes-

closer the moving figures came, sweening across the plain with incredible speed. Wiry, dark-skinned little men. they were, clad in flapping white dostrobes. Mounted on sharpy-control thorax, those ungainly, stumpy-leaged on the Poiding deserts, the nomady

made itutastic nightmare figures. Jim Weston, watching them, suddenly recalled tales he had heard at the Terrestrial Club at Mercis . . . tales of the desert men's savngery, of their florceness in combat. Haunting the ruins of ancient cities, they preved upon travellers: flobting fearlessly with antiquated heat guns purchased from canal-hoat traders. Even the Martian Allen Legion, composed of the touchest fixhting men of every planet, respected the wild little normads for their

reckless bravery. Jim remembered snotches of half-forgotten conversations . . . how the desert men, the Vers, had once captured mighty Mercis, sucked it . . . bow their cruelty had made them hated by all other Martions . . . their curious customs, their strange language, their lohuman lack of emotion. And now . . .

"You fool!" He turned to Slane angrilly. "D'yes know who you've relied to for help? The Vens, the aborigines

of Mars! Torture's their main sport!" The Saturnian stared at him stupidly. then turned his dell eyes to the desert men once more. They were near now: Ifm could see the dust thrown up by the thotors' hoofs, the senlight winking on the Vers' polished heat gurs. The

Suddenly Slane began to shout, to

desert men called to one another exultantly, waved their webbed, lizard-like bands. These membraneous fingers and their green bulbons eyes were all that remained to show that the Vens had once been amphibious, part of the mighty race that had ruled Mars before the drying up of the great seas and

marshes. Jim gazed at them helplessly. No use in trying to fight. . . .

With flares abouts the Vene draw

rein, forming a semi-circle shout the two spacemen. I'm felt neuscated by

the overnowering stench of the unclean theens. For a long moment the desert men studied them, fingering the beavy

ouns that home from their embowed spalet-skin belts.

"What . . . what do you suppose they want?" Slone muttered. "Maybe

they got water . . ." One of the Vens, bis unblinking eyes cold sourced a cuestion in an unintellirible dialect. Iim's answer, mumbled

in halting Martian, brought no response. Suddenly at a command from their leader, two of the desert men leaped to the ground, extended goard-

like bottles "Water!" Slane tilted the wourd to his line, drank avidly, "They're friendly! Gods of Saturn! I feel alive

agzin! Ask 'em if . . ." He got no further. A dozen of the little Vers springing from their mounts here him to the ground. For a brief moment Slane struggled, bowling the

normade over with reserving blows of his fists. Exhaustion, bowever, and lack of water, had taken their toll; the big Satumian disappeared under a souttming, savage mass of flesh. Weston, leaping forward to bis aid, felt scaly, webbed

hands grip bis arms, his throat, drag him to the eround. An instant later the spacemen were securely bound, lashed band and foot with stout rawhide thones. Grinning exultantly, the nomade threw their captives over the

backs of two of the threat, surang into their saddles. A word from their leader and the Vens were riding swiftly toward Neither Iim nor Slane remembered much of that wild ride across the desert. Dust from the thoose' boofs blinded

them and the inorine motion made their tired wascles ache Interminable bours went by. The sun was fast sinking a heibble of blood on the dark horizon, when the troop of desert men

came to a halt, dismounted. The camp of the Vers filled Jim with a species of awe. The vast and heary antiquity of the place, the solemn grandour of the failen columns, the crumbling

walls, were at once impressive and terrifying. Even before the slory of the Canal-Builders, this place had flourished, a creat desert shrine to some fornotten ood. Among the ruins of the outholldings, the Vers had nitched their black, dome-shaped tents, surrounding the central structure, a buse, six-sided

recremid. Its massive blocks of stone. in spite of their creat age were firm geometrically precise, though worn and pitted by the swirling, wind-blown sand. About the hose of the recramid rearched balf-obliterated bas-reliefs, grey granite shosts, peering from the stone with blind, evil eyes. Wild, distorted faces,

misshapen bodies, half beast, half buman, worn by the sand to only faint outlines. At each of the six corners of the building crouched a hideous winged she those learndary monsters which. according to the ancients, once bounted the losslands of Paidis

BESIDE these majestic, forbidding ruins the encampment was incongruous. Razzed black tents, flickering camp fires, slinking moiots, the tailless, six-legged Martian bounds . . .

a scene of sounder, of primitive savarery. Jim. lying on the ground next to Slane, watched little frog-like women

THE STRONGER

and children emerge from the tents, gather shout the warries, laughing, chattering, admixing their bravery. The Sarumian's huge bulk seemed above all to impress them; they felt his muscles, examined his teeth, as though he were some strange animal. The triumphant warriors, prougering, poured down cups of foreg, bent over tiny breaders, inhaling the smoke of burns fafe. All as once a barbaric best of drums

All at once a barbaric best of drums sissed from the great temple. At sound of it a modeln hash fell over the crowd of Vers, the momes and children covering their beads, the men kneeling. From the ruinde druttane of the pyramid a horoque figure energed, blinking, his gogde yets in the fusing smilght. They and withered, he was, and dressed in belillant festbered robes. At tall headdress, bright with jewels, precious metals covered the best horocast metals of the metals covered the best but and the prometals covered this barbes based; hometals covered this barbes based; ho-

man teeth, bung in strings, addresed his neck, his wrises. A high peters, Jim decided, or perhaps a chief. Since swore, straining at his bonds. The peters glanced at the two captives, grinning, and spoke in a high, quavering woice. Instantly the two spectrum were saized by a socce of small, eager hands, dragged into the poyramed.

pyramid.
Inside, the great temple was dark, except where fallen rood stones admitted
shafts of light. To Jim it was all a
welrd, disjointed dream. The greeneyed, scally-skinerel little Veris, the issarre, evil figure of the high priest, the
luge shadowy temple with its bloated,
obseroe statues, its hidrous bas-relifes.
Beside him, Slane swore continuity,
more to keep his courage up then for

more to keep in so, unique up unit for any other reason,

After perhaps ten minutes wandering through long, chink corridors, they found themselves in a vast hall, a place of sacrifice in hygone years to judge from the big altar, the grinning idols. Before the altar were two cazes, tall

hing, taken-hide burs filled Weston with defree pair. The beavy strips of leather as all would bead, certainly, but even Share's cides, mighty strength could not beek them. were Disconsiliately he studied forward band was showed boddy into the kine cage. When Share had been forced into the halfother pen, the Vens habed the does into place.

and narrow; the sight of their tough

mo pence.

Mutering incoherently, the winkled in priest approached the cages, brandishing a long, curiously-carvod, cremonial spear. With a quick movement be cut his printouser's bonds, threat feed, gourds of water between the bars.

"Koda like being in the Solar System Conduction of the Conduction

the water, he stretched latily "It's goma he tough shepting when you can't even sit down, but I'm thred enough to steep standing on my head." Leaning against the wall of the narrow cape, Stane closed his eyes. As he did so, the grinning little priest longed forward, jubbed his leg with the spear. Weston watched his companion straighten up with a bellow of pain, and his fore west within

"Good God!" he whispered. "They . . . they're not going to let us sleep!"

CHAPTER III

JiM WESTON sugged against the well of the cage, bis face gleaming with sweat. He was lighting a ferce inner hattle against a weary body

with sweet. He was agoing a ferce inere hittle against a warry bodythat cried for sleep. His eyelids, it seemed, weighed a thousand tens; only by the most cruel efforts was be able to keep them from drooping. Squatting by the flickering altar fire, the withered I priest eved him expectantly, this hand on

the ever-ready spear. Through a gaping hole in the roof of the temple Jim could see the big green star that was his home. Earth, with its green fields: its great cities! Here in the deserts of Mars it seemed only a dim dream . . . a dream. . . He caught himself just in time to keep from podding off.

The priest, however, had not noticed. A bowl of pain from the other case told that Slane had dozed off again. I im turned to look at the Saturnian. Slame was shaking the bars in madness offering the container of radium for a minute's sleep. Vaguely amused, the toedlike Ven wiped the blood from the point of his spear. Jim glanced at Slane's legs; they were gory, clotted masses of flesh, marked by a hundred spearthrusts. The giant's face was waxy in

the firelight and his red eyes held an insane glitter. "Slane!" Iim called. "You've got to stay awake! Got to! I'm trying to work out a plan. . . . " "Plan?" Slame housbed hoursely.

Gods! I could break a dozen of these little devils with my bare hands! But "Show some guts. The strength you were always beasting about on the Astric. Try to act like an carthman instead of a Saturnian bully. I'm going to pretend to be asleep. If I can hold still while he jabs my legs, make him go bisher. I'll be able to grab the spear.

The carved bandle of it is pointed. Maybe. . . . " "You can't." Stane's voice was a whimper. "You can't stay still while he twists that spear in your legs! The pain. . . . "

Weston shut his eyes, key back against the wall of the cage. Chuckling to himself the guard thrust at his less. A trickle of blood ran down his calf, but Him did not move. Again the spear

fisshed through the bars, and again. The muscles of lim's neck stood out like whipcords. The little Ven nodded Real sport, he decided, was about to commence. The red blade of the wennon rose higher cutting lim's thight his waist. And still the earthman did not budge, although his face was like Now the spearpoint was diging at the

tender flesh of his stomach. Weston's arm tensed its muscles tightened. Suddenly, with the swiftness of a striking malet, his hand princed the spear, drew it back for a crashing blow. The pointed butt of the weapon with all of Weston's wire strength behind it entered the neigst's builbons green eye, pierced his "Gods of Saturn!" Stane muttered.

"You. . . you've done it! Now if we can get out of these cages. . . . " lim, bis face grey with pain, drew the spear back, backed the rawhide lashings of the case door. A moment later be

and Slane were running along the sha-"What can we hope to do? Why doesn't dowy corridors of the temple, growing be kill me ... kill me before I so craxy! their way toward the entrance. "Onick! The thorns!" I'm gasped. "The little devilv'll be awake in a min-

> Already ourstioning shouts, cries of alarm were echains through the encompment. Against the pale sand Jim. could see the squat silhouettes of the thugus, tethered near the temple. The two men ran toward there unfortened the tether some

"Hold these!" Weston extended two bridles to Slane. "Th stampede the

rest!" FREED, the frightened throws galloned off into the desert: the space-

men mounted the two remaining beasts. smarked them sharply on the flanks Dim figures ran toward them and heat

guns lashed the air with red broms of

nte!"

The red desert, the crumbling rulns behind them were burid in glare of the heat guns. A patch of sand beside Stane's mount fused, ran. Jim, marvelling at the shaggy beasts' speed, glanced at the stan.

"Slane!" he called, "Keen going! Fast! We're almost out of dan . . . " His words trailed off into nothingness. Stane planted over his shoulder. Weston lay sprawled on the ground. very still. The thorn, its leg seared away by a best our's blast rolled about kicking up the sand in armov. Stane shook his head. No sense going back into that inferno of heat rays for a man who was probably dead Resides he had the chest of radium, and with Weston out of the way, there'd be no question of ownership. The Saturnian grinned. In a day or two be'd reach Psidis and with a pocket full of radium. Psidis with its tiny. rose-akinned girls, its bottles of tone,

The big man turned once mene, gianced back. Westion hay still, nor-rounsed by a blazing red fury of heat blasts, Same forward, Sombole was been dead to be back in the narrow rather cage, listening to jim's quiet wisches cage, listening to jim's quiet wisches cage, the state of a Satemann hally." So the terrestrial thought be associated to a Satemann hally." So the terrestrial thought he was better, stronger, than a man of Satemann for the statemann of the state

of thele, and he, Slane, . . .

Bending low, he spurred the frightend best back into the hell of lumbent flame. Perculs of crimson light grazed his arms, his legs, searing them. It required all of his vest strength to force the wild-eyed there forward new. All at once he was beside the limp, spawling digure on the saint.

"State!" Jim glanced up at him, smiling. "I . . . I knew you'd come!" "Okay!" The Saturnian muttered grailly. Leaping from the téacu's back, he bent to pick up Weston. At that moment the three, mad with fear from the stabbing rays, reared up on its hind legs, raced off across the desert. Slane, the wounded man in his arms, gazed after the fleeing naimal, his face

gazed after the fleeing naimal, his face beaded with wexts. Behind them the beat guns had ceased abruptly. The Vent, seeing an opportunity of capturing the two spacemen alive, ran forward across the desert, shouring cutlinally. "Leave me!" Jim sought to free himself from the giant's grip, "Rust! Save ventred!"

Slare shook his beed studbornly, staggered on. With each moment his pursuess drew nearer. Glanding over his shoulder, the Saramian corld see their green key syes, glearingle luminosily in the darkness, hear their house, cager voices. Now the desert men were scarcely is haunded feet away, their webbed kett padding softly on the sund. Weston, Juliag over the bitg rams's shoulder, which is supported by the property of the sunder whether the proof to the sunder minority, at the most, two in auditor minority, at the

And then it happened. Like a flaming meteoritie a siek nocket plane swooped down, its peeten guse hissing. Caught hy the dessily blast, a socee of the Vens crumpled lifeless to the ground, the others, panie-stricken, took to their heels in wild, inance terror. The plane landed lightly, its durium runners stilline softits over the sand

"The Desert Patrol!" Jim watched four men in the familiar green uniform of the Martian Alien Legion climb from the plane, "Thanks, Skne! You

you saved me . . ."

The giant's deep laugh boomed triumelunity across the desert

The giant's deep length boomed triumplantly across the desert "Better than a Saturnian, eh?" be exclaimed. "Less guts than an Earth-

man? Huh! Like hell!"
Still laughing, he dropped the chest
of radium into Weston's pocket and
stamered toward the racket plane.

the uncompromising curptimess of the

Let's look back at today. 7000 years from now, no more may he known of today than we know of almost legendary Troy, buried less than half that long, or of the Toltee and Pre-Dynastic Egyptian empires. Civilizations can not be reconstructed from archaeological data aloge. And books are one with dust after 7000

the creek future that is to come? Not surely that each and every one of their scientific fiction-like wonders its origin and factual hasis in

Vet that is what we shall find in this first and subsequent Roundabout views of the present, while adven-

What then will they think of us in plastic surfaces. And yet he felt the Ponetually at five minutes to nine on the 2rd of sol, in the year 9193, K.S. Technicism Jonz entered the main lec-

that filled the lowe room. His entrance having served as a signal to the enginmoment the screens were glowing brightly beneath the iridius number iately the class began to assemble The yearne Educational Science Technickys, his plain but not unattractive features set in their characteristic serious mold, compared himself to walk while in their homes scattered across stroke of the hour. Ropadly their life-

a score or two of screens still blank,

Prowing, the technicism regarded

ninteen - bundred - and - thirty - ninth seconds past the hour and-His frown The face, as No 1939 sat book triuming into account an impich turn of line and a certain untilt of nose. Young rather as a harmonious combination of

description somehow inadequate. . . . Collecting himself with a start, the rested there like the outlandish heedfore the age of Frankness, gleaning pedate pressing into his scalp over the ture hall of Tellurian University and, in the only chair with which the andamble, then, he began his lecture, and potentials, led off by a more of fine and coiled across the floor to the transof his far-flung students. "In opening the humanities section

of the 1263rd service of the University," telepathed E. S. Technician Jone, "I to make. It is at the insistance of the Dean of Students that two-way televislop has been installed. His belief is else-" the Technician sentured to the each student the entire classroomspirit. For my part I hope that the innovation will not prove a distraction to

ROUNDABOUT Semshow E. S. Technician Janz' eves sharing

how her eyes oriented when—
Quickly changing the direction of
his thoughts he resumed with a sharpness that widened the girl's stable, "The next thing we know, they will be asking us to some together in person, and use our veices—"the Technician's thoughts

as to once together in person, that was our veices—" the Treiniesas 's thoughts waves were fathly surcharged with enotional repulsion—"blue our more violently insane, or animals in prin!" "Himph? So I sound like a sick cow!" The intruding thought impinged lightly more Treiniesas Joseph impinged lightly more Treiniesas Joseph ind. but

lightly upon Technician Jean' mind, but somehow he was certain it had originated with the girl in television zeroes 160). Insufrictively feeling a challenge, he set out to meet it: "If is many there and years since man has foreshoo hrute speech fee mental communication. Unternative man had been also been also provided to the set of the challenge of the communication of the challenge of the civilization as may have existed preyelunds. And true, the Jakenes of

graves records, in conjunction with urchardopical artifacts of considerable engineering skill, such as stradigs, sindicates that man is the twestieth and preseding conturies was but an illineate if gifted savage. But," be concluded triumphantly, "all authorities agree that is at least ten theseund agree that is at least ten theseund engineering and the second concession and the second contension between business belies."

ings)" duried a glasse & No. 1905. See white rathed to find her retill send-ing is mercaneable accusement, he continued swiftly. "It is our eloyed in this first lecture to obtain a true historical perspective. While man, opending to asted the earth for about one military years, he remained a primitive creature until less than 7000 years ago! I can conceive no better illustration of this

touched upon."
The Technician was an familiar
ground now. His thoughts fairly
crackled. "It is true, as I have infermed
you, that long before the twentieth
sortury telepathy had become man's
sole method of direct communication.
But in how crude a form it prevailed!

n of "thinkage. or Chinkage."

In things—or Ching.—if you reharp"be better with a strong of the story.

The best with control of the story.

The best with the story, was supposed to have
"be best with control of the story of the story

sharing while on the Third Bretd Mid-Western Expedition, to the size of the

Hundred Yaars War, that pittinl struggie between two archiae and artificially differentiated groups using the power of seitene to vestel from ested other the bounty is could have given both. In a upon seministable signs of human habitation. It was there, in the first building uncarbed, that we made the discovery—a tail, marrow, closel-like oblighted to the could be a series of the oblighted of the could be a series of the oblighted of the could be a series of the oblighted or challed by the could be a considerated carbonited by the could be a considerated carbonited by the could be a considerated carbonited by the could be a series of the could be a series of the could be a series of the could be described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a series of the described by the could be a series of the could be a

"Later exercisions and subsequent investigations contraced us of the nature of this object. It was an aid is eleptathe communication in So mentally important were the anticists of their years to be subsequently and the special properties and the properties were vidently increased, until generators, public, and repiration water they had not eventilated on the properties were vidently increased, until generations water of tons every gone and a condition of near-coans previolated—and with their work they also the communication of the communication of the properties where they also be communicated and the communication of the communica

"May I offer a-an alternative explanation?"
There was no doubt, this time, that the interjected thought had originated with the girl visible in television screen 1939. Though surprised, the Technician

conceive so better illustration of this fact than one involving the very nuster of neutral communication already touched upon."

The Speciations was an familiar removed elimes the night live, carneally removed to the control of the

terrior, in whichever of a mousend ar remote elimes she might live, earnestly began; "What you discovered had not at ing to do with telepathy. It was a h hooth—a station—for using a mechanical instrument called the telephone.

sale method of direct communication. ... "She hesitated. "Yes, we—they flut in how crude a form it prevailed! used their wices to communicate then. The preof is in an archaelogical discover in which I had the honor of —even "it mentally impotent. ..."

TEL

E. S. Technicism Jonn—by virtue of his engressment in a physickogical phenconstant. A disproporation amount of hisod had come to the girl's face, as if she were—be sought, and found, the archate term—blusting. Meanwhile the girl swiftly continued. "They were well on their way to it,

tos

bowever—belightfile communication, I man. Extra Sensory Perception they called it then Psychologists in universities were studying it, to see how it worked and how it could be developed. Other scientists were trying to find out what it was "They dispovered that the brain is a

storehouse of electric energy, released in waves in this hollow. They were legals in waves in this hollow, They were legals in the property of the property of

sided with a midden inspiration. This, beyond death, headil prove a deathy beyond death, headil prove a deathy being particularly to a children entire to the class. "If there are any fid year instinct to agree with the young Loky own R it, of course, the universal fabric we call with, after the tiline constitution of the course instant lade or the covertion of course mixed lade or the covertion of

E. S. Technician Jone' frown van-

He stopped abouptly, feeling rather well pleased with himself, but it seemed be had hardly finished his thought before the girl was reptying. "That's not fair. They made synthetic hibries yayan out of cellulose, and artiferial

his apertures, just to begin. And what's more, they mode side the even if they of didn't tall it that."

if R. R. Technician Jona' complacency if R. R. Steinheim Jona' complacency appared and with it a certain pazalement as the girl sided, "I don't know to the page to the process was the same, but I'll between the results are every his specific to the process was the same, but I'll between the results are every his as good. The

the results were every hit as good. The thread wes made by hreading up glass thread wes made by hreading up glass that a twelve course bottle world produce a single fibr five thousand miles in length! You might have seen le-I senan, one piece where glass their and seen the century isa "---wasn" for free Chiesgo-Covan, Illinois." A periout Technisian door might have there were controlled to the control where the control of the c

which girl. He had not failed to note a vertain confision shout time in bry mind, alongside her remarkably detained to the state of the state of the history. Moreover, no areal engine pince ealfold forces, illinois, y pince ealfold forces, illinois, sitting in his chair, he tree feelings histories to the to any but the most insultive observer, then added, "Let us leave used unperior affectivements and conclude unperior affectivements and conclude

hriefly with a nore general comparison between today and the twentiled century. Deliver all will concrede we have conformed to the contract of the contract of

glance at screen 1839!..."women is his const.

"Pownerly people came tegether in groups for diversion, and in couples in response to the animal matting inclined. Fee our diversion today we need not stirted our houses. The television serven, for example, brings the theatre to us.

ROUNDABOUT learner, we play mentally, as I am com-Jone as underlooble. In a brown study

municating with you. As for perpetuating the race, for twenty centuries synthesized are and obesided feetility. ation have replaced that compulsion on sacrificing the sulendid present isolation which is the superiority of our speial envisibation." He concluded with a proud, little-boy

defiance and suddenly seemed very sing the class, he rose to his feet in the Perhams that is why the oirl smiled now more with her eyes, grown lumineus, than her lips. And purhaps that is why she asked, "Hoven't you for-

love? There's compeniouship-" "And aren't you," sharply interrunted the Technician, "merely ration, alizing with some romantic nonsense this obvious inferiority in the social organization of the century you have

chosen to defend?" The girl's smile drained away. Green stecks somed to appear in her eyes. "Oh, allright then. Let's see if you can take it too. The twentieth century did in the ninteesth century, sea urchins were produced that way. Later, frogs and rabbits. And finally, though they

velop only as far as the beginning of cell division, a human ova was fertilized artificially!" "The class," telepathed E. S. Technician Jong, "is dismissed!" and statched the amplifier from his head. Until the television screens were blank again he stood there. Though he may

have imprined it, he thought he saw contrition on the face of the girl in serven 1939 so her image disappeased on the fading glow. Then, feeling a varue unrest, he strade out of the levture hall and left the University. It was the same negation dissatisfac. tion which made him proceed hosseward on face. From the corridor outside the

passumatic tube, which burrowed besphior-web tracks hung from every tower. No one ever trailed. But at no other time would the continues of the streets have struck E. S. Technicism

he tradged along until-"Hi! Professor." Later Technician Jany would recornher that it had happened exactly as he earne abreest Public Airport 332, Dis.

169

triet, 32. But at the moment, there was too much to which he had to adjust bireself. Her meculiar salutation is meant nothing to him and yet it meant everything, for though he did not know the words, the intention was obviously friendly. And she had stoken-or had

that been the nealing of a hell? "I am extremely pleased to meet you -Miss 1909," said Technician Jone, and was so astounded to and that his eves and smiling lips-that he said nothing more for a mamoral. Then, as if

autometing an amazing discovery, "I had no idea you lived within a thousand rilles of here." "Another disadvantage of television, telepathy-and isolation." Jonz smiled, and immediately became

a much more attractive young man-"Perhaps you are right," he agreed amilably. "Are you going my uny?" "No!"

It was a ise, and Tookstrian Jone knew it from the impich turn of her Nos. But his capitulation was complete. Then will you go my way?" he asked. "Yes," she replied, more softly. Several squares later Technicism Jons sighed and ventured to remark

that this was most pleasant.
"Then you were lonely," the girl said. "And you do see, day I you, what primitive. It's-"Yes, But you're lonely too. Where

The girl besitated. "Never mind," Technician Joan axid firmly. He was a different man

new. A man-sa an earlier century phroned it with a resid "At least you're a stranger here, so there is much I can they you. This afternoon, the energy plants. Tonight, Galaxy Park." "What's that?" "An amusement park. You'll see

plenty that was never dreamed of in the

"Well, maybe,"

countryside!

having aged biologically more than one minute! And now for higher organisms—for nan!—witnal immortality becomes a roughlity!

110

Thus once more in realizated the truly prophilic quality of science for this. But we need not look only to a few need not look only to a few need not look only to a few need not look only to the truly of truly of the truly of truly of the truly of truly of the trul

most gifted men, to the building of a greater, nobler race. MAGIC IN THE AIR

Dear Sir; Leet summer, while driving through Arisona, we saw a nibuge which I would like to have explained. We saw a broad like ahead. As we drove on, it never some eleour but suddenly vanbised and appeared behind us.—L. G., New York City.

It appears that this mirage involved nothing more than a stratum of superheated air lying seroes the highway. Salimanting so that at a distance it account oppuper from either olds, that air section of superimons of water. But critisatily a mirage reticles, or in each critisatily a mirage reticles, or in survival to the superimon of the survival survival properties of the survival and are the survival and the survival and the survival survival and the survival and the survival survival and the survival and the survival survival and the survival and survival survival and the survival and survival survival survival and survival and survival sur

in opposite directions!
Reflooted mirages seems when the supertraposition of two layers of air of unoraginal temperature and density seames
that's ossesses surface to ach as a mirror.
While the Arisons mirage was undoubtedly startling—particularly to anyone following the car, which wentle have seemed to plunges into the lakes and submerge—if it had been the reflorted variety the effect would have been always to be a submerged to the surface of the property of the surface of the surrounding The light rays thus reflected back to earth may some from objects a few or a hundred—even a thousand—miles distant. Thus Peary, in the Arctio, saw mountain tops around the bend in the

mountain tops around the bend in the sarth The "discovery" seet another expedition out to exphere—the mirage! Of this same variety was the mirage of arraise marching through the sixsen in parts of the Sondmarken peninrals during the Franco-Prunian Wer. Even the uniforms of the men fighting hundreds of miles to the south could be distinguished. Most articing mirage of this type, observed are convenity in the content of the property of the content of the could be never to be a second of the content of the con

Morgans—an issaye, Secused in the sir, the water, or in both with one inverted, of a harbour bustling with thips of ovcey fig., even water-freet houses and streets through with sullers of many mations! While it may amuse us, as has been

reported from lower Now York harbox, to see the Empire State Building "stand on its own bead," miraged formed in the key are of course not deceiving. But certain types of miraged caused by irregular refraction of light produce disconserting effects. While it causes no harm to the beholder to see a ship apparently split in two, this most intered displacement of light ferrod our intered despicement of light ferrod our lateral despicement of mirage in the course lateral despicement of mirage in the course of the lateral despicement of light ferrod our lateral

more moonshing

mois!

ill Dear Sir:

A friend, centending that even the
mr most implanental scientific facts are

THROUGH THE TELESCOPE

challenged me to offer convincing evidence that light has motion. Will you came to my aid—R. E. Chicago, III. The simplest and yet a most effective demonstration of the motion of light is

demonstration of the motion of light is the original one used by Romers, who discovered the phenomenen. While it is true that most neintific demonstrations demand advanced technical knowledge and elaborate equipment, this one requires only a watch and a pair of field glasses.

classes. On clear nights, if the glasses are turned on Jupiter, they will reveal the planet's four brightest moons, whose frequent cellipses can not be minister. The interval between successive eclasses will be found to wary considerably in clearwation mode at different times of the year. That is because the distance that the control of the planet is the clearer-the distance in bringing us the clear-

which light must travel.

By this sum entitled, aven the velocity of light can be determined with the bole addition be our equipment of an almanu. Taking the observations when Jupiter and Barth are at epopulation and continue to the sum of th

is also known; it is of course the disacttor of the Barth's crist, approximately 126,090,000 miles. Divide it by the actual 950 second interval our watch has registered, and we have for the speed of 500 miles per second.

In other respects Jupiter's means have been had a way of keeping in the news. These same four used in measuring the speed of light, served a faring the speed of light, served a far-

have long had a way of feesping in the new. These same four need to measuring the speed of light, served a far greater and when discovered by Gallion greater and when discovered by Gallion interested by the server of the server interested by the server in the size, to all yes they were a working model of the Copernican Heliocentric (curricentry) system—and a death flower to the Pushensia Decountry (curricentry) system—and a death flower to the Pushensia Decountry (curriporters of attention).

the Federale Geocentri (carth-center)
system which had long impeded the
progress of astroneous.
Not until 1920 was Ampleer's fifth and
Not until 1920 was Ampleer's fifth and
1921 added four more to bits growing
familly. Those were problemanble dis-



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DR. CLEVELAND DENVAL

SELL SUITS

root lady finds relie

Lafavette Blvd. RIKE

with the fifty short period comets that divide allegiance between Jupiter and the Sun, the roster was filled. But a few months ago, the powerful Mt. Wilnew means!

son 100 inch telescope turned up two The discovery of Juniter's touth and eleventh satellites is one to make no re-

member that the book of our knowledge of our calestial neighbors is hardly beoun. Soon, the great 200 inch Californis telescore and then... What is the mystery of the "canals" of dvine Mars? What lies beneath the shroudinc clands of Venns, mature twin to the Earth in age, size, and physical

constitution?

And while we seek these answers a young giant, under the bright ausniess of eleven satelites, perhaps awaits the day when all the other planets shall be dead, harren-and Juniter shall be

Is satisfied from treatment penershy ees Artificial favor, induced by observance radietten or incorrecation in a bot box for from two to ten bours, has been used successfully in the treatment of arthritis, St. Vitue and other pethelogic conditions to in man turns or stigmilates the body to produce sub-

place the suffer lost in sweet, so other ill effects Mare interesting in its possibilities is an extirely different one for induced burb favour parcently course same change that INCREASED

Experiments with rots have electly demostrated this fact. While it is not known whether the increased intelligence is due to stimulated circulation, sending mere blead through the body and to the brain, or in One to some other factor, there seems no rea-

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